QK1
.M5 93
v.2

MISSOURI BOTANICAL GARDEN

bulletin

January/February 2007 Vol. 95, No. 1

THE ART OF ORCHIDS

JANUARY 27 THROUGH MARCH 11

From the President...

photo by Michael Jacob

At 5 p.m. on January 1, Chihuly's *Glass in the Garden* will close, the most successful exhibition ever mounted at the Garden. We are thrilled to be keeping a stunning memento of the exhibit—the *Missouri Botanical Garden Blue Chandelier* hanging in the Ridgway Center—for which we are very grateful to Emerson and the Muckerman family. We also welcome nearly 8,000 new members.

Two thousand and seven will be another exciting year at the Garden. The Doris I. Schnuck Children's Garden will reopen for another fun-filled season in April, and we welcome another exhibit: Chapungu. Visitors to the annual 2007 orchid show will see the first installation of these monumental stone structures from the Shona people of Zimbabwe. The rest of the exhibit, dubbed *Nature, Man, and Myth*, opens in May.

Throughout the year, members are encouraged to visit the Garden's family of attractions. A new exhibit will open soon at the Sophia M. Sachs Butterfly House. The EarthWays Center offers opportunities to learn about resource conservation, and the Shaw Nature Reserve in Gray Summit is a wonderful way to interact with the natural world.

There is much to look forward to in 2007—the 90,000 bulbs blooming in spring, the scent of roses in the air all summer long, leisurely music concerts, the colorful celebrations of Chinese and Japanese culture, the glorious fall color and early holiday shopping at Best of Missouri Market®, the annual Gardenland Express holiday flower and train show. We hope you will be inspired to visit the Garden often.

See you at the Garden,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

–mission of the Missouri Botanical Garden

Board of Trustees

Mr. Scott C. Schnuck, *Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. L. B. Eckelkamp, Jr.
Dr. Thomas F. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. John E. Klein
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr.
Carolyn W. Losos
Cheryl Morley
Mr. Jai Nagarkatti
Veronica O'Brien
Mr. Nicholas L. Reding
Dr. Henry Gerard Schwartz, Jr.
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Jack E. Thomas, Jr.
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. Samuel C. Davis, Jr. *
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Keinath, Jr.
Mr. Ralph Korte
Mr. Robert E. Kresko
June M. Kummer
Mr. E. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn E. Newman
Mr. William R. Orthwein, Jr.
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony F. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Nancy Sauerhoff, *Chair*

* *deceased*

photo by Josh Monken

October 24, 2006 dedication. From left: Robert M. Cox, Jr., Senior Vice President of Emerson; and Muckerman family daughters Diane M. Luppens, Barbara Fisher, and Margo M. Hields standing with Garden president Dr. Peter H. Raven.

Chihuly Comes to a Close, Chandelier Stays

Glass in the Garden closes January 1, ending a year of exciting increases in visitation, visibility, and membership.

"We are thrilled that the beauty of Dale Chihuly's work has introduced a whole new generation of visitors to the Missouri Botanical Garden," says Dr. Peter H. Raven, Garden president.

Membership is up 22 percent and attendance climbed over 60 percent in 2006, a dramatic growth attributable to the exhibit. *Chihuly Nights* in particular were a sold-out success, prompting the September expansion from one night per week to two.

Chandelier Acquired

On Tuesday, October 24, artist Dale Chihuly's *Missouri Botanical Garden Blue Chandelier, 2006* was dedicated to remain permanently at the Missouri Botanical Garden. It has been purchased for the Garden with funds donated by Emerson and from the estate of Mrs. Barbara Hagnauer Muckerman and Dr. Richard I.C. Muckerman, in honor of Amy J. and Hilbert W. Hagnauer.

Created for the unique environment of the Ridgway Center atrium, the chandelier was recomposed from half of a 50-foot blue tower that stood as part of the *Chihuly in the Light of Jerusalem 2000* millenium exhibition. The completed sculpture was assembled on site in mid-air over three days last January by Chihuly Studio artisans. It weighs 2,300 pounds and measures six feet across by over 20 feet long. It consists of 928 individual glass spirals and gooseneck shapes.

Opportunities still exist for donation of Chihuly sculptures to the Garden. In particular the Garden hopes to acquire enough Walla-wallas (the onion forms) to fill one pool in front of the Climatron. For more information, please contact the office of Institutional Advancement at (314) 577-9495.

Garden Admission Free in Jan.

From Tuesday, January 2 through Friday, January 26, Garden admission will be free to the public. During this time, several areas of the Garden will be closed for removal of the Chihuly exhibition, routine maintenance, and inventory. Closures include: Climatron conservatory, Temperate House, Tower Grove House, Garden Gate Shop, and Little Shop Around the Corner. No tram tours at this time.

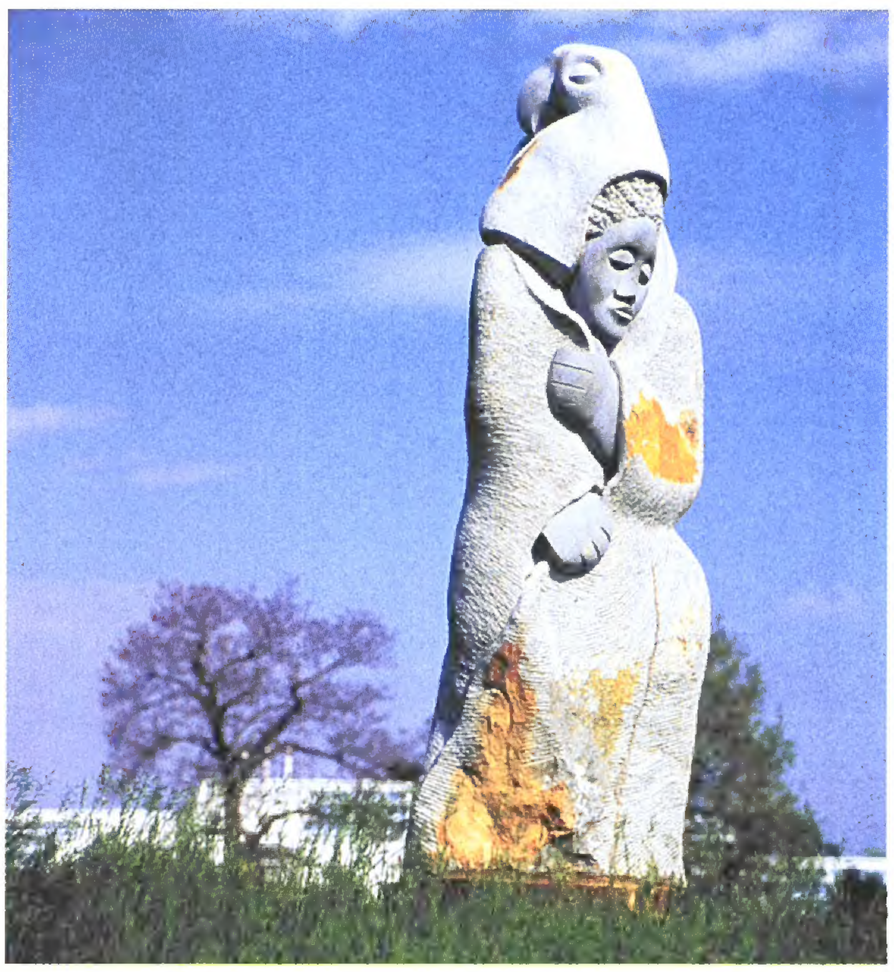


photo courtesy Roy Guthrie

"Chief Consults with Chapungu (1994)"

Sneak Peek 2007: CHAPUNGU

In January, the Garden will unveil the first statue in a monumental new 2007 exhibit, entitled *Chapungu: Nature, Man, and Myth*. The statue on display was hewn of opal stone by artist Biggie Kapeta. Chapungu, pronounced cha-POON-goo, sculpture originates from the Shona people of Zimbabwe.

Chapungu artists made their debut in the U.S. at the Missouri Botanical Garden in 2001, and we are pleased to welcome this new exhibit in 2007. *Nature, Man, and Myth* presents monumental, hand-carved sculptures of humans, animals, and creatures of legend, illustrating their interdependence in an increasingly complex world and fragile environment.

Planning a Party?

This exclusive Chapungu stone sculpture exhibit will be lit for evening viewing, making the Garden an even more attractive venue for your unique night-time event in 2007. Catering St. Louis is the exclusive caterer of the Missouri Botanical Garden. Upper-level members and Corporate Partners receive discounts. For more information, call (314) 577-0200.

photo by Josh Monken

Gala Co-chairs Mr. and Mrs. James F. Hoffmeister, Drs. Peter and Patricia Raven, Dr. and Mrs. Leonard J. Guarraia, Mr. and Mrs. David C. Sauerhoff.

Thank you, Brewmasters' Gala Patrons

On October 20, the Garden hosted the first Brewmasters' Gala. Special thanks to presenting sponsor Anheuser-Busch, and to the dedicated co-chairs of the event who worked so hard to make it a rousing success.

Grateful thanks to the other sponsors of this exciting evening:

Gold: The Boeing Company, Bryan Cave LLP, Macy's Midwest Division

Silver: Anonymous, Edward Jones, Enterprise Rent-A-Car, Monsanto Company, Sigma-Aldrich Corporation

Bronze: Mr. and Mrs. Stephen F. Brauer, Lohr Distributing Company, Mr. and Mrs. David C. Sauerhoff, Mr. and Mrs. Jack E. Thomas

Patrons: Tim and Suzanne Boyle, Mr. and Mrs. Bert D. Condie, III, Millstone Foundation, Mrs. Don Carr Musick, Mr. and Mrs. Raymond W. Peters, III, Mr. and Mrs. William C. Rusnack, The Stolar Partnership, Mr. and Mrs. Andrew C. Taylor

Thank you, Holiday Show Sponsors

Thanks to the sponsors of this year's popular *Gardenland Express* holiday flower and train show—CBIZ Accounting, Tax & Advisory / Mayer Hoffman McCann P.C.; Central States Coca-Cola Bottling Company; Marian L. Herr; and Southwest Bank of St. Louis—and to the designers of this year's holiday wreath display: A Rose is a Rose, Botanicals Design Studio, Dale Rohman Enterprise Inc., Fresh Art, Kirkwood Florist, Ladue Florist, Leona's, Pick Flower Gallery, Randy Felkey Florals, Schnucks Floral Design Center, The Bug Store, and twigs and MOSS.

Children's Garden Hibernation

On November 4, the first season of the new Doris I. Schnuck Children's Garden came to a successful close with a winter-themed event, "Putting the Children's Garden to Bed." Through a variety of interactive games and activities, pajama-clad kids learned important lessons about how nature and animals prepare for winter, and how humans do too. Children planted daffodil bulbs along the split-rail fence of the Children's Garden and received a daffodil bulb to take home. When their bulb blooms at home this spring, it will be time once again to visit the Children's Garden. Look for a special, members-only event scheduled for the last weekend of March, with the public grand re-opening following on April 1.

photo by Josh Monken

Children decorate pots to take home at the Children's Garden seasonal closing.

Corporate Partners

Many thanks to the Garden's 2006 Corporate Partners!

Principal Level
($25,000 and up)
Commerce Bank
Emerson
Monsanto Company
Schnuck Markets, Inc.

Shareholder Level
($10,000 to $24,999)
Anheuser-Busch Companies, Inc.
The Boeing Company
Bryan Cave LLP
Bunge North America, Inc.
CBIZ Accounting, Tax & Advisory/
Mayer Hoffman McCann P.C.
Enterprise Rent-A-Car Company
Macy's Midwest
Sigma-Aldrich Corporation

Underwriter Level
($5,000 to $9,999)
A.G. Edwards
Brown Shoe Company, Inc.
BSI Constructors Inc.
Edward Jones
McBride & Son Homes, Inc.
U.S. Bank, N.A.
Vantage Credit Union

Investor Level
($2,500 to $4,999)
Alberici Constructors
Argent Capital Management
Chase Park Plaza
Forms Distribution Corporation
Greensfelder, Hemker & Gale, P.C.
HOK
MTR Landscape
Architects, LLC
R. Duane Reed Gallery
Regions Bank

Supporter Level
($1,000 to $2,499)
Alpha Packaging
Anthem Blue Cross and
Blue Shield of Missouri
Belden
Catering St. Louis, Inc.
Chemia Corporation
Christner Inc.
CIC Group, Inc.
Colliers Turley Martin Tucker
CSI Leasing, Inc.
The Daniel and Henry Company
Dierbergs Markets, Inc.
Ernst & Young
Fabick Companies
General Motors Corporation
The Graybar Foundation
Hager Companies
Holland Construction Services
Hortica
Laclede Gas Company
Lewis and Clark
Community College
Mackey Mitchell Associates
McCarthy Building Companies, Inc.
National City
The City of O'Fallon, Illinois
Sachs Properties
SSE
Stone Carlie & Company
J.W. Terrill
Thompson Coburn LLP
UMB Bank, N.A.
Willaredt Acres, Inc.
Woodard Cleaning & Restoration

Plant Preserve Helps Humans Too

photo by George Schatz

Montagne des Français, Madagascar

Garden scientists identified the biological importance of Montagne des Français, and now the Malagasy government is taking steps to preserve it while working to eliminate poverty. In 2005, botanists coordinated a conservation assessment of a rocky area on Madagascar's northern tip and revealed large areas of highly diverse and unusual plants and animals. However, their research also revealed an alarming loss of natural habitat, due mainly to the exploitation of wood for the production of charcoal. The Malagasy government has moved to establish a formal protective area within two years, while providing alternative means of making a living other than highly destructive charcoal production. Ecotourism is the goal, because of the site's dramatic scenery, interesting and attractive flora and fauna, and proximity to the provincial capital and nearby beaches.

New-Tree-Free Again in 2007

In January 2005, the Missouri Botanical Garden gave up the glossy to become the first botanical garden in the nation to print on 100 percent post-consumer recycled paper manufactured with wind power. In an era when everyone claims "some recycled content," what's the big deal? About 7,140 trees, actually.

Savvy eco-consumers should look for two things: an actual numeric percentage of recycled content, and the words post-consumer, meaning the paper completes the recycling loop, having been used once before. The Garden will renew a New Year's resolution to continue to look for ways to lessen our environmental footprint, such as expanding e-options. If you don't already subscribe to the e-newsletter, the *Garden Gram*, enroll today by e-mailing membership@mobot.org. The *Bulletin* may be 100% new-tree-free, but the *Garden Gram* is 100% tree-free, period.

photo by Josh Monken

Awardee Dr. Gordon Cragg and Dr. Peter H. Raven

Wm. L. Brown Award

On November 10, the William L. Brown Award for Excellence in Genetic Resource Conservation was presented to Dr. Gordon Cragg, former chief of the Natural Products Branch of the Developmental Therapeutics Program at the National Cancer Institute (NCI). Throughout his career, Cragg has championed the preservation and study of plants as the source of the chemical compounds that form the basis of many therapeutic drugs. The award recognizes the outstanding contributions of an individual in the field of genetic resource conservation and use. It is administered by the Brown Center at the Garden, made possible through a generous endowment from the Sehgal Family Foundation, in cooperation with the family of Dr. Brown.

Contain Yourself for the Garden

The Garden invites our members and other savvy shoppers throughout the St. Louis region to organize their homes and their lives—and benefit the Garden. On Saturday, March 3, The Container Store, the nation's leading retailer of storage and organization products, opens its first Missouri store in Brentwood Square in St. Louis. As part of the opening celebration, The Container Store will donate ten percent of grand opening weekend sales to the Missouri Botanical Garden. So think spring cleaning, spring planting, and get organized March 3–4 at The Container Store. Shopping for a good cause? We can barely contain ourselves! Visit the Garden's website www.mobot.org for more details.

photo by Erin Whitson

On September 30, Dr. Peter H. Raven and MaryAnn Fink of the Missouri Botanical Garden present a plaque to Mike Shannon's Restaurant manager Pat Shannon VanMatre and developer Kevin McGowan.

Plants of Merit Garden

The Garden's unique Plants of Merit program recommends plants selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. Recently, Mike Shannon's Restaurant installed 12 Plants of Merit selections on their terrace, qualifying this unique urban landscape as a Plants of Merit Garden.

Plants Ready for Their Close-Up

Although the need may sound strange, the Mellon Foundation awarded the Garden a substantial grant in October to take pictures of dead plants. The dead plants are dried specimens held in the Garden's herbarium. By photographing or scanning them, the Garden will be able to include these visual images online with existing records in TROPICOS, the world's largest botanical database, allowing access to these crucial research materials to scholars the world over. The Garden has just completed the first Mellon-funded specimen digitization project, which focused on African plants. This new grant, called the Latin American Plant Initiative, will allow the scanning of collected specimens of Central and South America. It also provides for equipment and a coordinator to train 20 or so Latin American institutional partners.

Membership

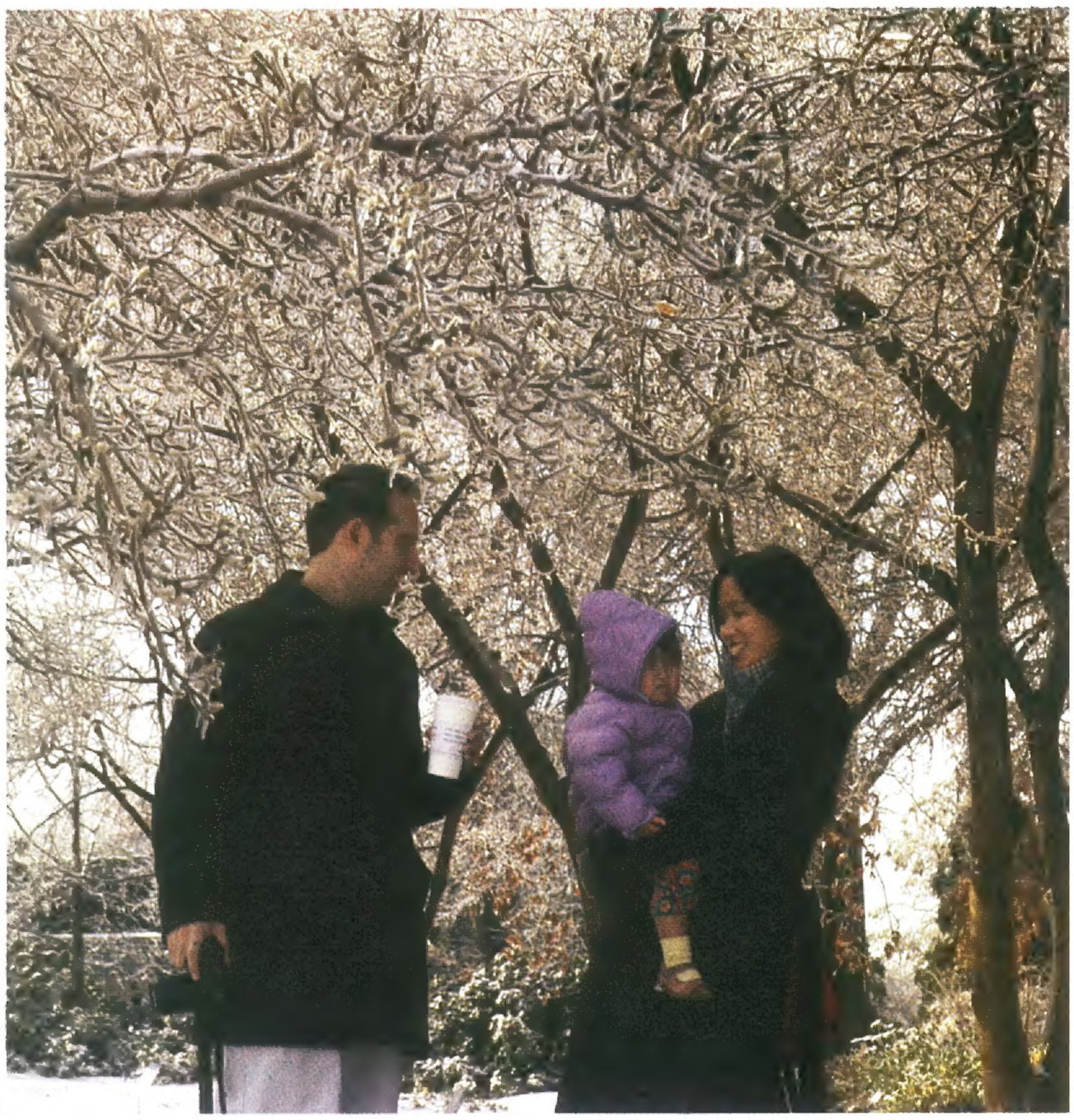


photo by Josh Monken

Visitors on the Garden grounds following the November 30 ice storm

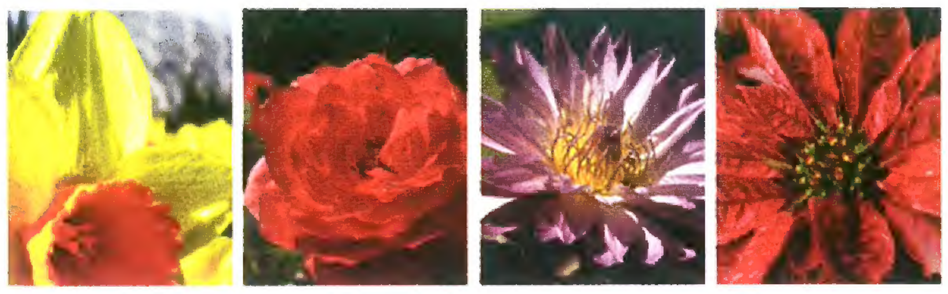
Growing with Our Members

The year 2006 was a banner year for the Missouri Botanical Garden's membership program. With the grand opening of the Doris I. Schnuck Children's Garden and the spectacular Chihuly *Glass in the Garden* exhibition, the Garden's membership grew 22 percent to over 41,000 households—making it one of the largest membership programs of any botanical garden in the United States.

To welcome our nearly 8,000 new members, the Garden is offering a new member orientation program. These welcome sessions will meet quarterly in the auditorium. They will begin with an overview of the Garden's programs and family of attractions, and conclude with a docent-led walking tour of the grounds. Both new and returning members are welcome to participate. See the master list of Members' Days and Events for dates.

Have Membership Card, Will Travel

Through our affiliation with the American Horticultural Society, the Missouri Botanical Garden is able to offer our members discounts and deals at botanical gardens across the United States. So the next time you travel, be sure to take your membership card: you'll receive free admission to the Memphis Botanic Garden, free parking at the Chicago Botanic Garden, two-for-one admission to the New York Botanical Garden, and more! See the brochure mailed with your membership cards this year, or visit www.ahs.org and click on "Reciprocal Admissions Program" to download a PDF of the list of participants.



photos by Matt Bender and Ryan Rumberger

Now More Bonus Blooms!

This year, all members receive even more value! All members will now receive more Bonus Bloom passes than ever before, each one exchangeable for a $3 activity, such as a tram ride, admission to the new Children's Garden or to the Butterfly House in Chesterfield. These extra Bonus Bloom passes are in addition to all the many benefits members continue to enjoy.

Your Benefits Statement 2007, Regular Member ($60)

- Free unlimited admission for two adults and all children age 12 and under to the Garden, Shaw Nature Reserve, and EarthWays Center, and reduced admission to the Butterfly House
- 6 Bonus Bloom passes—a value of $18—exchangeable for admission to the Butterfly House, Children's Garden, or tram rides
- Members' Days each month featuring special programs for Garden members and their guests, including free tram rides and discounts in the Garden Gate Shop and Sassafras café
- Invitations to exclusive members-only preview parties of the Garden's annual Orchid and Holiday shows
- Discounts of up to 20 percent, and even more for special sales events, in the Garden Gate Shop, Madame Butterfly Gift Shop, and Little Shop Around the Corner
- Discounts and early enrollment privileges for educational classes for adults and children
- Publications including the bimonthly *Bulletin*, filled with Garden news, home horticulture advice, and a calendar of events
- Free reciprocal privileges to over 195 botanical gardens and arboreta across the U.S. and Canada

Upper level members see more, do more, enjoy more! Call (314) 577-5118 for details or visit www.mobot.org.

photo by Kristi Foster

Members of all ages enjoy the Orchid Preview.

Special for Members

January/February Members' Days & Events

Members' Orchid Show Preview
Friday, January 26, 5 to 8 p.m., Ridgway Center
Experience *The Art of Orchids* before it opens to the public at the members-only preview. Enjoy music, a cash bar, and the added drama of night lighting. A dinner buffet will be available for $17.95 per person. Shop for an outstanding selection of orchid plants and gardening accessories at the Garden Gate Shop. For more information, call (314) 577-9154.

St. Louis Trivia
Wed., Jan. 31, 11 a.m., Ridgway Center
St. Louis radio legend Johnny Rabbitt joins us for a look back at the glory days of radio, television, and newspapers. Johnny Rabbitt's *Amazing St. Louis Trivia Game* book signing follows.

Let Worms Eat Your Garbage
Sat., Feb. 3, 11 a.m., Ridgway Center
Jean Ponzi, Program Manager at the EarthWays Center, shows how to transform kitchen and garden scraps into supercharged organic fertilizer in a quiet, convenient worm bin.

Valentine's Day Dinner Dance
Sat., Feb. 10, 6:30 to 10 p.m., Ridgway Center
Bring your sweetheart to the Garden, and take a romantic stroll through *The Art of Orchids* show, enjoy a gourmet dinner, and dance the night away. Dinner 6:30 to 7:30 p.m. $60 per person (cash bar). Reservations are required and seating is limited, so please call (314) 577-9154.

Save the Date: Vintner's Gala
Sat., Mar. 10, 6:30 p.m., Ridgway Center
Vintners from around the world will gather at the Garden for an evening of fine wine, gourmet food, and sparkling conversation. Following champagne in *The Art of Orchids* show, each table of guests will have the opportunity to meet various wine experts, sample their private vintages, and bid on unique wines in a silent auction while enjoying a sumptuous multi-course meal. It's a very special gala evening in cooperation with A. Bommarito Wines to benefit the Garden. Tickets are $350 per guest. To request an invitation, please call Brenda Zanola at (314) 577-0879.

2007 Members' Days & Events

Every month Garden members enjoy special events, tours, walks, and lectures by local experts. Plan ahead to attend throughout 2007!

Tues., Jan. 23	Members' Day at the Butterfly House*
Fri., Jan. 26	Orchid Show Preview
Wed., Jan. 31	Members' Day: St. Louis Trivia with Johnny Rabbit*
Sat., Feb. 3	Members' Day: Worm Composting with Jean Ponzi*
Sun., Feb. 4	New Member Orientation
Sat., Feb. 10	Valentine's Day Dinner Dance
Sat., Mar. 10	Vintner's Gala
Fri., Mar. 23	Members' Day: Plants of Merit with Mary Ann Fink*
Sat., Mar. 31	Eggstravaganza
Wed., Apr. 25	Members' Evening in the Japanese Garden*
Tues., May 1	Butterfly House Paver Reception
Sat., May 5	Children's Garden Club Presentation with Doug Wolter
Sun., May 6	New Member Orientation
Wed., May 30	Rose Evening and Brick Donor Reception
Fri., June 1	Members' Musical Evening with Gateway City Big Band
Sat., June 16	Members' Day: Birding at Shaw Nature Reserve*
Thurs., June 28	Members' Day: Daylily Garden Tour*
Fri., July 20	Family Picnic in the Cohen Amphitheater
Wed., July 25	Members' Day: Butterfly House*
Sun., Aug. 5	New Member Orientation
Wed., Aug. 15	Members' Day: Ottoman Garden Tour*
Sun., Sep. 9	Grandparents' Day
Tues., Sep. 18	Members' Day: Herb Garden Tour with the St. Louis Herb Society*
Sat.-Sun., Oct. 6-7	Best of Missouri Market
Fri., Oct 19	Members' Day: Fall Color Hike at Shaw Nature Reserve*
Sun., Oct. 28	Ghouls in the Garden
Fri., Nov. 2	Members' Day: Holiday Decorating*
Sat., Nov. 3	New Member Orientation
Wed., Nov. 28	Holiday Flower and Train Show Preview
Sat., Dec.1	Breakfast with Santa
Sat., Dec. 8	Members' Day: Holiday Concert*

*On Members' Days, members enjoy discounts of 10 percent in Sassafras café and up to 20 percent in the Garden Gate Shop and Little Shop Around the Corner.

The Art of Orchids

January 27 to March 11, *admission: $3 (free for members)*

From orchid fever to orchid thievery, orchids have exerted a tremendous pull on the human psyche. Cultivated for their long-lasting flowers and strong perfume for over three thousand years in China and Japan, orchids became collectible status symbols in Europe with the advent of climate-controlled glass houses in the 19th century, resulting in an "orchidelirium" in Britain similar to the tulip craze of 17th-century Holland.

Taking a cue from this luxurious frenzy, the 2007 orchid show *The Art of Orchids* explores both the beauty and science of these gorgeous blooms within a classic "conservatory" setting. Nearly 800 exotic fragrant orchids and tropical plants will be shown as vignettes inspired by a watercolor painting. Glass cloches will enclose orchid blooms and suspended window frames will surround plants presented as living art, complemented by sample prints from the Missouri Botanical Garden Press.

"We're presenting a traditional display exhibiting the art of growing, displaying, and illustrating orchids," says Pat Scace, the Garden's floral display designer, who creates the show with a team of staff and volunteer assistance.

The Plants

From the classic florists' corsage orchids to hundreds of exotic new hybrids, visitors will be treated to a selection of the Garden's largest living collection— over 8,000 plants representing some 2,500 species, including many rare and unusual plants. Sizes range from miniatures to mega-blooms, with scents described as sweet, citrus-y, perfume-y, musky, to the less-savory beetle-pollinated varieties.

"Every year we feature plants the public hasn't seen before," says Blanche Wagner, horticulturist and orchid grower. "We just received a shipment of new Vandas. There will also be some Cymbidiums that visitors have never seen and a few Phalaenopsis."

The Preparation

The horticulture division's greenhouse and floral display staff and a group of volunteers prepare for the show months in advance. Wagner expertly juggles temperatures in the greenhouse orchid range starting in the fall to force early blooming or to delay blooms for the show.

A sample of the orchid collection is on view year-round in the Beaumont Room atrium in the Ridgway Center and in rotating orchid displays inside the Climatron conservatory. For more information on orchid species and cultivation, visit the website of the American Orchid Society: www.orchidweb.org

Orchids in the Wild

The orchid family (Orchidaceae, pronounced "or-kid-AY-see-AY-ee") is the largest family of flowering plants in the world. With over 30,000 species, fully 10 percent of all known flowering plants, are orchids, so how can so many be endangered? Orchids are highly evolved plants, with specialized adaptations for the many ecosystems they inhabit. As ecosystems are disturbed by human actions, orchid species are often the first plants to succumb. Also, of course, humans over-harvest wild orchids.

Since 1975, the international plant trade has been regulated by the Convention on International Trade in Endangered Species. All of the Garden's plants have been acquired legally from growers and researchers.

Hearing is Believing

Learn about the fascinating history of orchids at the Garden, the threat to orchids in the wild, and also how to acquire and care for your own orchids, while you experience the breathtaking beauty of *The Art of Orchids*. As part of a new pilot program, download a FREE audio-tour from the Garden's website (www.mobot.org) to your mp3 player prior to your visit. Or use your cell phone to dial up informational messages within the show (the call is free, but minutes will be applied per individual cell plans).

In honor of Black History Month, the Missouri Botanical offers a month of family-oriented activities with a focus on one of the Garden's newest additions, the George Washington Carver Garden.

February Events

Celebrate Black History Month

Actor Paxton Williams enacting the role of George Washington Carver

photo Library of Congress

George Washington Carver

A Great Scientist, Teacher, Humanitarian
Born a slave in 1865 in Diamond Grove, Missouri, George Washington Carver took an interest in plants and nature from an early age. Determined to get an education, Carver left the region to become the first African-American to enroll at Iowa State University, where he studied botany. He joined the faculty of Alabama's Tuskegee Institute in 1896 and began a 45-year career that would establish him as one of America's greatest scientists, teachers, and advocates for productive, sustainable agriculture.

Witnessing the destructive effects of centuries of cotton farming on the South's natural resources, Carver found crops that would restore depleted Southern soils—notably peanuts, sweet potatoes, soybeans, and black-eyed peas—and developed hundreds of applications for them that would increase their market value for impoverished farmers. He was a prolific researcher, with hundreds of inventions; a dedicated educator, writing more than 40 pamphlets which he distributed free of charge; and a committed humanitarian, explaining, "My idea is to help the man farthest down."

A Living Tribute
The George Washington Carver Garden, the first such garden in the nation, honors the life and accomplishments of George Washington Carver. Designed for peaceful contemplation and learning, the garden features a small amphitheater surrounding a central statue and reflecting pool. Plantings of viburnums, hydrangeas, callery pears, and sweet potato vines provide a secluded, intimate feeling. New in 2005, the Carver Garden will be fully grown by 2008, but is already especially lovely in spring.

photo by Erin Whitson

George Washington Carver Garden

photo by Emily Snider

Celebrate the Gospel

Celebrate the Gospel
Sun., Feb. 11, 3 p.m
Celebrate Black History Month with a heartfelt expression of African-American culture—gospel singing. The 18th annual "Celebrate the Gospel" features a city-wide, multi-racial gospel choir singing the debut performance of a new work by Fred Onovwerosuoke, director of the St. Louis African Chorus. Seating is first come, first served.

Carver Days
Sat.-Sun., Feb. 17–18, 9 a.m. to 4 p.m.
Visitors will be treated to a one-person play written and performed by Paxton Williams. Visitors can also explore, experiment, invent, and discover some of the multifaceted accomplishments of George Washington Carver while moving among five Carver Activity Research Stations.

Throughout the month of February
- Watch "Carver: Man of Vision" on weekends in Shoenberg Auditorium.
- See artifacts on loan from the George Washington Carver National Monument.
- Learn about some of Carver's inventive techniques with peanuts, sweet potatoes and soybeans.
- Discover clues on a "More than Peanuts" activity page that lead to the Carver Garden.
- Sample Carver-inspired recipes in the Sassafras café.

"Listening to the Still Small Voice: The Story of George Washington Carver"
a one-person play by Paxton Williams
Sat., Feb. 17, 10 a.m. and 2 p.m. and Sun., Feb. 18, 1 p.m.
This story of one of the most inspiring and enigmatic renaissance men of the 20th century travels from Civil War-era Missouri, to Carver's laboratory, to the halls of Congress, highlighting the trials, tribulations, and ultimate triumph of the scientist/educator/artist known as the "Wizard of Tuskegee." Following the performances, visitors are invited to meet and ask questions of Carver (as portrayed by Williams).

Home Gardening

photo by Erin Whitson

...in the Linnean House

Delight your senses this winter with a stroll through the Linnean House, where over 50 different camellias, diverse in size, color, floral form, and history, are now in flower. Peak bloom is mid- to late February, so this fantastic display of glorious red, white, and pink makes a wonderful Valentine's date. The delicious signature fragrance of the Linnean House comes from the fragrant olive trees, *Osmanthus fragrans*, growing at the entrance.

...Coming Someday to a Backyard Near You

Camellias are commonly found in backyards in the South and West, but not, unfortunately, in the Midwest. This may be changing, however, as recent developments in camellia breeding have produced some cultivars which exhibit improved cold hardiness. Over the next several years, the Garden will grow specimens on a trial basis to determine if these new camellias can successfully be grown in St. Louis gardens.

Planted in June 2006 in the English Woodland Garden are *Camellia* 'Winter's Joy' (pink, semi-double flowers), 'Winter's Star' (pink single flowers), 'Snow Flurry' (white double flowers), and *C. oleifera* 'Lushan Snow' (white single flowers). These plants will have winter protection for at least the first year consisting of a burlap "cage" filled with dry straw or leaves, but are purported to be hardy to -5 degrees F.

In spring 2007, we will plant *Camellia japonica* 'Spring Promise' (rose-red single flowers), 'April's Tryst' (red anemone-form flowers), 'April Snow' (white rose-form flowers), and 'April Dawn' (pink double flowers).

What's In Bloom? Podcasts!

Did you know that the Garden has a podcast of "Plants in Bloom"? From the terms "iPod" and "broadcast," podcasting is a method of distributing multimedia files over the Internet for playback on mobile devices, such as iPods, and personal computers. Several hundred folks have already subscribed to receive the weekly update. To get started, visit: www.mobot.org/gardeninghelp.

Gardening Blitz Weekend

Sat.-Sun., Feb. 24–25

Select from one to five of the Garden's 19 most popular full-length gardening, cooking, art, and craft classes to customize your own educational program in this jumpstart to spring gardening. Morning and afternoon sessions. Fees from $15 to $48; Garden members receive a discount. Pre-registration required. Call (314) 577-9441 or visit www.gardeninghelp.org and click on "Classes."

Saturday, February 24

8:30 to 9:30 a.m.

- MBG's Gardening Help on the Web (Glenn Kopp)

10 a.m. to noon

- Low-maintenance Perennials (Angie Eckert)
- Plants of Merit Old and New (Mary Ann Fink)
- Birds and Birding in St. Louis (Bill Rowe)
- Missouri Natives in Your Garden (Ann Case)
- A Spring Mediterranean Dinner (Lynn Heermann)

1 to 3 p.m.

- Perennials for Saturday Gardeners (June Hutson)
- Hillside and Slope Gardens (Robert Thomas)
- Well-seasoned Advice for the Novice Gardener (Mike Miller)
- Garden Photography Workshop (Scott Avetta)
- A Taste of Watercolor (Judy Seyfert)

Sunday, February 25

10 a.m. to noon

- Perennial Gardening in the Shade (Cindy Gilberg)
- Planting for Hummingbirds and Butterflies (Chip Tynan)
- Best Roses for St. Louis (Diane Brueckman)
- Spring Lawn Care (Glennon Kraemer)
- Grab and Go Healthy Breakfasts (Lana Shepek)

1 to 3 p.m.

- Best Shrubs (Dianne O'Connell)
- Growing Orchids (Babs Wagner)
- Fresh Floral Wreath (Jennifer Smith)

What to do in your garden now...

clip and save

photo by Emily Snider

January

all month

- ❑ Brush off heavy snow, but allow ice to melt naturally from plants. Prune damaged limbs promptly to prevent bark from tearing. Avoid salt or ice melters as these may injure plants; instead use sand, bird seed, sawdust, or vermiculite to gain traction on icy paths.
- ❑ Keep records of your garden. Inventory the plants in your home landscape and note past performance.
- ❑ Check fruit trees for evidence of rodent injury to bark. Use baits or traps where necessary.
- ❑ Avoid walking on frozen lawns as this may injure turf grasses.
- ❑ Some plants are sensitive to flourine and chlorine in tap water. Water containers should stand overnight to allow these gases to dissipate and warm to room temperature.
- ❑ Wash the dust off of houseplant leaves to allow the leaves to gather light more efficiently.
- ❑ Fluffy, white mealy bugs on houseplants are easily killed by touching them with a cotton swab of rubbing alcohol.
- ❑ Insecticidal soap sprays can be safely applied to most houseplants for the control of many insect pests.
- ❑ To clean heavily encrusted clay pots, scrub them with a steel wool pad after they have soaked overnight in a solution consisting of 1 gallon of water, and one cup each of white vinegar and bleach.

weeks 1–2

- ❑ Quarantine new plants to be sure they do not harbor any insect pests.
- ❑ If you didn't get your bulbs planted before the ground froze, plant them immediately in individual peat pots and place the pots in flats. Set them outside where it is cold and bury under thick blankets of leaves. Transplant them into the garden when weather permits.

week 3

- ❑ Remove spent Amaryllis flowers after blooming. Set the plant on a bright sunny window to allow the leaves to develop fully. Keep the soil evenly moist, not soggy. Fertilize occasionally with a general purpose houseplant formulation.

week 4

- ❑ Try sprouting a test sample of leftover seeds before ordering new seeds for spring. (Roll up 10 seeds in a damp paper towel. Keep moist and warm. Check for germination in a week. If fewer than half sprout, order fresh seed.)

For additional information on plant care and gardening:
- *visit the Wm. T. Kemper Center for Home Gardening.*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org.*

photo by Erin Whitson

February

all month

- ❑ Don't work garden soils if they are wet. Squeeze a handful of soil to form a ball. If it is sticky, allow the soil to dry further.
- ❑ Start onion seed indoors now.
- ❑ Inspect fruit trees for tent caterpillar egg masses. Eggs appear as dark brown or grey collars that encircle small twigs. Destroy by pruning or scratching off with your thumbnail.
- ❑ Water evergreens if the soil is dry and unfrozen.
- ❑ Take geranium cuttings now.
- ❑ To avoid injury to lawns, keep foot traffic to a minimum when soils are wet or frozen.
- ❑ Repot any rootbound houseplants before vigorous growth occurs. Choose a new container that is only 1–2 in. larger in diameter.

week 1

- ❑ Branches of pussy willow, quince, crabapple, forsythia, pear, and flowering cherry may be forced indoors. Place cut stems in a vase of water and change the water every four days.

week 2

- ❑ Start seeds of slow-growing annuals like ageratum, verbena, petunias, geraniums, coleus, impatiens, and salvia indoors.
- ❑ Maple sugaring time is here! Freezing nights and mild days make the sap flow.
- ❑ Fertilize houseplants only if they show signs of new growth.

week 3

- ❑ Sow celery and celeriac seeds indoors now.
- ❑ Prune fruit trees. Peaches and nectarines should be pruned just before they bloom. When pruning diseased branches, sterilize tools with a germicide spray between cuts. Dry your tools and rub lightly with oil to prevent rusting.
- ❑ Sow seeds of larkspur, sweet peas, shirley poppies, and snapdragons outdoors. For best bloom, these plants must sprout and begin growth well before warm weather arrives.
- ❑ Apply appropriate sprays for the control of lawn weeds such as chickweed and dandelion.

week 4

- ❑ Sow seeds of broccoli, brussels sprouts, cauliflower, and cabbage indoors for transplanting into the garden this spring. If soil conditions allow, take a chance sowing peas, lettuce, spinach, and radish. If the weather obliges, you will be rewarded with extra early harvests.
- ❑ Fertilize established fruit trees once frost leaves the ground. Use about ½ lb. of 12-12-12 per tree, per year of age, up to a maximum of 10 lbs. per tree. Broadcast fertilizers over the root zone staying at least a foot from the tree trunk.
- ❑ Dormant sprays can be applied to ornamental trees and shrubs on a mild day while temperatures are above freezing.
- ❑ Start tuberous begonias indoors now. "Nonstop" varieties perform well in this climate.
- ❑ Encourage birds to nest in your yard by providing water and by putting up bird houses. Planting suitable shrubs, trees, vines, and evergreens will provide wild food sources and nesting habitat.

Featured Plant of Merit

Rhododendron
'My Mary' Azalea

Champagne-tinted blossoms greet the first hint of spring as this deciduous azalea comes into bloom with intoxicating fragrance. Add to woodland areas where there is good drainage. Do not allow to dry out.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

www.mobot.org/gardeninghelp/plantfinder

Christmas Tree Recycling

Recycle your Christmas tree at Forest Park, Carondelet Park, and O'Fallon Park in St. Louis City December 26 through January 19. (Remember to remove all decorations.) Free mulch available at same sites, while supplies last. County Parks no longer offer this service.

Glorious Gesneriads

More than just African violets, these pretty tropical treasures make easy, beautiful plants for the home. January and February are the months we turn our attention to houseplants most of all, here in the Midwest, so it's as good a time as any to get to know gesneriads

The Gesneriad family includes tropical beauties like the Gloxinia Sinningia speciosa, *native to Brazil and available in shades of lavender, purple, red, and white.*

What is a Gesneriad?

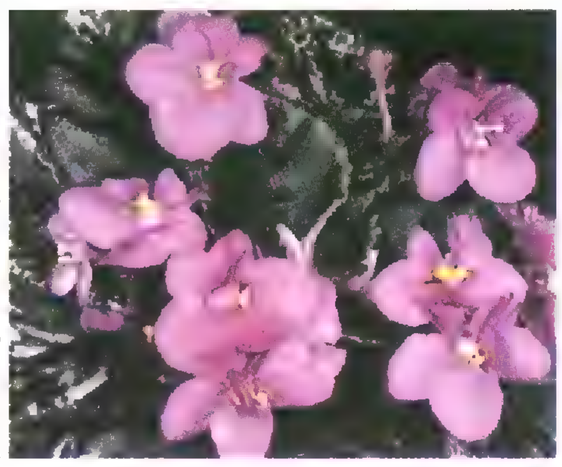
Whether pronounced with hard or soft "g," the stress is always on the second syllable: "jez-NARE-ee-ad" ("guess-NARE-ee-ad"). The gesneriad family contains over 2,500 species of plants, the best-known being the African violet. The family is highly diverse, distributed throughout the tropical and subtropical zones, often very beautiful, and amenable to indoor cultivation. In fact, they often enjoy the same conditions as humans. Gesneriads bloom throughout the year, an especially welcome sight on a cold winter day!

Some gesneriads have been hybridized extensively, resulting in hundreds of cultivars. In addition to the African Violet, some of the more common gesneriads are the Florist Gloxinia (*Sinningia speciosa*), Lipstick Plant (*Aeschynanthus*), Goldfish Plant (*Nematanthus*), Cape Primrose (*Streptocarpus*), Flame Violet (*Episcia*), and Cupid's Bower (*Achimenes*).

Local Gesneriad Lovers

For more information or to reach other fans of gesneriads, contact the St. Louis-area branch of the Gesneriad Society by calling president Gary Dunlap (636) 789-3604 or e-mailing patspets@sbcglobal.net.

photo by Julie Mavity-Hudson



The Latin name of the African violet, Saintpaulia ionantha, *comes from Baron Walter von Saint Paul, who discovered the plant in 1892 in Tanzania.*

Growing Gesneriads

Most gesneriads will thrive on conditions that are easy to create in the home.

Temperature

Normal home temperatures are usually suitable for gesneriads. Daytime temperatures of 65° to 75°F, with a 10° drop at night are considered ideal for most gesneriads. Some require higher temperatures, others will accept much lower ones. Avoid hot or cold drafts, such as furnace vents or open doors. Overall, if you are comfortable, your plants will be also.

Water

Water your plants when the top of the soil is dry. Be sure to use room-temperature water! Soil should be moist but not wet and soggy; excess water must drain out the bottom of the pot. Minerals in well water or softened water may be detrimental to plants. To maintain a tropical level of humidity during the dry winter heating season, place the pots on a tray filled with damp pebbles.

Light

For healthy plants and abundant blooms, your gesneriads must have bright—but indirect—light. Some gesneriads will tolerate or do quite well in a moderately sunny window. If necessary, shade the plants with a curtain. Most gesneriads grow and bloom very well under artificial fluorescent lights. Make sure the lights are about 8–16 inches above the plants and turned on for 12–16 hours per day.

Fertilizer

A constant feeding method is recommended for gesneriads, using any good 20-20-20 or 15-30-15 fertilizer. Use one-tenth to one-quarter the strength recommended on the label directions. Use this strength every time you water your plants, but once a month use plain water to flush out accumulated salts.

Soil

If the root ball is very tight and overgrown, it's time to repot into the next size pot. Growing medium must be loose and porous to retain moisture, yet provide good drainage. Use any of the prepared African violet mixes, with some perlite mixed in to lighten the soil.

Cuttings

Stem and crown cuttings (with the bottom leaves stripped off) can be placed in a covered, soil-filled pot until roots have formed. Most gesneriads can be grown from seed, but many modern hybrids will not reproduce true from seed.

Reprinted in edited form from the Gesneriad Society, www.gesneriadsociety.org.

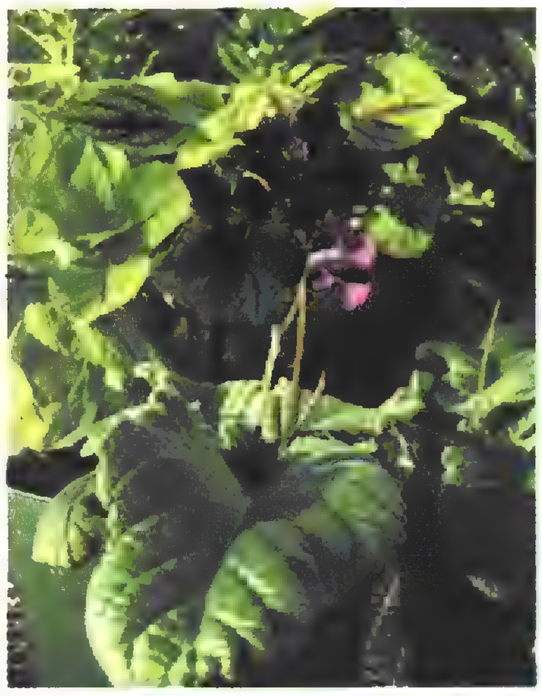


photo by Justin Visnesky

Gesneriads at the Garden

The Climatron conservatory's collection of gesneriads, while not extensive, includes some interesting species. *Gesneria pendulosa*, a very atypical-looking gesneriad from Puerto Rico, grows about 2 feet tall. In January/February, expect to see some streptocarpus in bloom, in addition to potted varieties in the Temperate House.

At left: Cape primrose Streptocarpus *'Lord Fauntleroy' features flowers in a rich velvety purple. See varieties of Cape primrose displayed in pots in the Temperate House.*

Member Plant Societies

These Plant Societies are sanctioned by the Garden's Horticulture Division and have joined the Missouri Botanical Garden as members.

American Orchid Society
Craig Plahn, (314) 965-5007,
drscdplahn@mac.com, www.aos.org

Bonsai Society of Greater St. Louis
Ted Piekutowski, (314) 831-8703,
circustaz2@sbcglobal.net, www.stlbonsai.org

Carnivorous Plant Society
Hat Addington, (314) 837-3772,
sleepdreams@addlebrain.com,
www.stlcarns.homestead.com/home.html

Gateway West Gesneriad Society
Gary Dunlap, (636) 789-3604,
patspets@sbcglobal.net

Greater St. Louis Daffodil Society
Beth Holbrooke, (314) 434-6152,
bethholbrooke@aol.com

Greater St. Louis Dahlia Society
Colleen Simons, (363) 583-8568,
csimons@yhti.net

Greater St. Louis Daylily Society
Marc Zeller, (314) 487-7490,
sosidesupply@swbell.net

Greater St. Louis Iris Society
Bob Pries, (636) 677-8805, rpries@sbcglobal.net

Henry Shaw Cactus Society
Martin Schweig, (314) 361-4226,
termmart1@hotmail.com, www.hscactus.org

Metropolitan St. Louis African Violet Council
Patricia Dunlap, (636) 789-3604,
patspets@sbcglobal.net

Mid America Regional Lily Society
Fred Winterowd, (314) 423-5313,
www.marls.org

Missouri Botanical Garden Daylily Society
Chick Buehrig, (314) 389-8261,
buehrig31@aol.com

Missouri Orchid Society
Charles Dana, (314) 773-3042, ctdana@aol.net

Orchid Society of Greater St. Louis
Lynette Dowell, (636) 536-3392,
dowlynn@aol.com, www.osogsl.org

St. Louis Herb Society
Beverly Schmitt, (314) 962-8120,
bschmitt7@aol.com, www.stlouisherbsociety.com

St. Louis Horticultural Society
Thomas Frankey, (314) 837-7450,
Admiral103@juno.com

St. Louis Water Gardening Society
Joan Woelfel, (636) 394-6342,
joan.woelfel@sbcglobal.net, www.slwgs.org

West County Daylily Society
Chick Buehrig, (314) 389-8261,
buehrig31@aol.com

Garden at Large

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

photos courtesy MBG Education

A private group enjoys the view from the Dana Brown Overnight Center Assemby Building.

Experience the Nightlife
At the Dana Brown Overnight Center

What's that sound? As your eyes slowly adjust to the darkness, far from any streetlights, you strain to see what your ears are hearing: a snorting animal sound nearby. A vast blanket of stars gives just enough light to see the white tail of a deer bobbing away into the woods.

The Dana Brown Overnight Center is the perfect setting for your next corporate retreat, business meeting, conference, holiday party, family reunion, or church group.

Visit www.shawnature.org for more details, or call (636) 451-3512 ext. 6080 to reserve your place in the nightlife at the Reserve.

Dana Brown Overnight Center Welcomes You!

Since 2002, the Dana Brown Overnight Center has set the stage for visitors seeking a more intimate encounter with the natural world, and has hosted hundreds of school children, as well as renewal retreats, seminars, workshops, and corporate meetings.

"Having an overnight facility enables participants to experience the evenings and early mornings when a lot is going on in the natural world," says John Behrer, Director of the Shaw Nature Reserve. "Hearing owls, coyotes, and whippoorwills, or a deer snorting in the woods just out of sight in the darkness is a magical experience and instills a sense of the wonder of nature."

The Dana Brown Overnight Center is situated in the heart of the Shaw Nature Reserve, 2,400 acres of scenic wilderness in the Ozark foothills along the Meramec River. An attractive complex of historic buildings (circa 1850), the Center includes four log sleeping lodges, a modern shower house, and a large post-and-beam assembly building. All buildings are heated, air-conditioned, fully accessible, and have restroom facilities, providing a comfortable atmosphere.

The Facilities

Sleeping Lodges
Historic 19th-century log cabins, the four sleeping lodges are meticulously restored, clean, and cozy. Lodges include bunk and single beds, and one private or semi-private sleeping room, as well as restrooms. Modern shower facilities are adjacent.

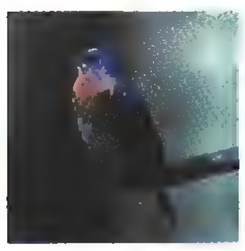
Shower House
This freestanding building has radiant floor heat and is a modern, bright, spacious facility with showers, sinks, and restrooms. Private changing rooms are connected to each shower stall.

Assembly Building
A restored 19th-century post-and-beam barn, the Assembly Building accommodates 100 guests. It features a fireplace, wraparound porch, kitchen, and restrooms. Catering is available by arrangement.

Adlyne Freund Center
A handsome stone hunting lodge, the Adlyne Freund Center accommodates 60 guests. It features a functional stone fireplace, large glassed-in porch, a small commercial catering kitchen, and restrooms.

Recreation Activities

Hiking
Fourteen miles of well-groomed trails wind through tall-grass prairie, forests, glades, woodlands, and wetlands, down to the Meramec River.



Birdwatching
Discover some of the many gems of the Reserve. From ruby-crowned kinglets to red-headed woodpeckers and red-shouldered hawks, the Reserve is a regional birding "hot spot" throughout the year.

Wilderness Wagon
For an additional fee, groups of up to 28 may enjoy a fun and educational one-hour tour with a naturalist guide any day of the week, from May through October. Tours include a three-mile open-sided wagon ride with stops at the Trail House, the Bascom House, and Whitmire Wildflower Garden.

Guided Nature Exploration
Let our accomplished guides lead your group, or family, as they explore ponds and prairies or follow animal tracks through pristine Missouri woods.

The Facts

- Just 45 minutes from downtown St. Louis
- Accommodates 60 people overnight and 50–100 for a daytime event
- Audio-visual equipment available, high-speed Internet access, and comfortable accommodations
- All proceeds benefit the Shaw Nature Reserve and Missouri Botanical Garden

Butterfly House

15193 Olive Boulevard, Chesterfield, MO 63017
phone (636) 530-0076 • www.butterflyhouse.org

Hot, Hot, Hot!

Sat., Jan. 20, 10 a.m. to 2 p.m.
Bring the little ones for a winter warm-up with beach-inspired games, prizes, crafts, sand castle building, live steel drum music, and of course, butterflies! Designed for kids ages two to eight with their parents. Activities and crafts included with admission.

photo by Maggie Matthews

Hot, Hot, Hot fun for kids 2–8.

Small Wonders Opens Jan. 20

The Butterfly House's newest exploration into the realm of terrestrial invertebrates opens January 20. Thirteen living exhibits, containing hundreds of animals, will highlight adaptations needed for survival and the significant role these animals play in nature. A spectacular new 40-foot long mural by artist David Rock, whose other clients include Disney's Animal Kingdom and zoos across the nation, will highlight deserts, grasslands, and rainforests, and guests will be able to see many of the insects and other invertebrates found in these areas.

Closed Jan. 1–15

The Butterfly House will be closed for two weeks to undergo maintenance in its conservatory and building.

Garden Members' Day

Tues., Jan 23, 10 to 11:30 a.m.
2, 4, 6, 8: what should we appreciate? Legs! Learn more about our many-legged friends and why they are important to the environment and ourselves at this fun, members-only presentation. Includes live invertebrate encounters and a tour.

EarthWays Center

3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

Sustainability Education

Grants Support Free EarthWays Center Lessons and Services

photo by Julia Feder

Learning gets charged with sun-power as students build a solar water heater.

Major grants from AmerenUE and the St. Louis-Jefferson Solid Waste Management District are now supporting EarthWays Center's delivery of free sustainability educational programs for schools, community groups, and families. Sustainability education takes into account not only the natural systems that support all life on Earth, but also human time and energy, and economic growth and balance.

"Our everyday actions can produce a more healthy, habitable, and equitable world for all living things – plants, animals, and human beings," says EarthWays Center Manager Glenda Abney. "This year's resources will enable us to seed a more sustainable future throughout St. Louis."

The EarthWays Center is St. Louis's leading source for practical, everyday "greening." Topics range from energy efficiency, conservation and renewable energy options, to many aspects of recycling, waste reduction, and composting. Programs will be scheduled on request and may be selected from a menu of lessons, services, and tours of the EarthWays Center. For a detailed listing of options, visit www.earthwayscenter.org/education.

Eye on:

Research and Conservation

Opened to the public in 1859, the Missouri Botanical Garden is today the oldest botanical garden in continuous operation in the U.S. and a National Historic Landmark. In his 1889 will and testament, founder Henry Shaw established the Garden as a Missouri charitable trust operated by a board of trustees to be maintained "for all time" for the public benefit. Since its inception, the Garden has been dedicated to a three-fold purpose: Research, Horticulture, and Education. This is the first in a series of overview articles highlighting each of these areas.

Each year, nearly 800,000 visitors come to the Missouri Botanical Garden to delight in the serene beauty of the grounds and enjoy a wide array of special events. The Garden seeks to engage its visitors on a profound level to "preserve and enrich life" by illuminating the importance of plants to the balance of life on Earth. While most visitors discover a heightened appreciation and understanding of the world's rich botanical heritage, few realize that beyond the floral panoramas and exhibits there exists another realm: our internationally renowned research enterprise.

With scientists on six continents and 35 countries around the globe, the Missouri Botanical Garden is one of the three largest botanical research enterprises in the world along with the New York Botanical Garden and the Royal Botanic Gardens, Kew (outside London).

In 1971, there were just three Ph.D. botanists at the Garden. Today, there are nearly 50. With assistance from 75 technical and support personnel, over two dozen graduate students and 70 volunteers, Garden scientists conduct the absolutely essential work of plant identification, classification, and conservation in locations the world over. This map and the captions below give just a small idea of our programs, projects, and publications.

Why on Earth?

Plants may not create the warm and cuddly feeling in humans that animals do, but they produce something more essential: the building blocks of life. Food, clothing, shelter, medicine, oxygen—all of these come from plants. Botanists estimate there are 300,000 species of plants on Earth, but fewer than one in eight have ever been evaluated for human use. Meanwhile, in nations where people often live in extreme poverty, humans are destroying tropical forests at a rapid pace, clearing timber, using the land for cattle or slash-and-burn subsistence agriculture.

The Missouri Botanical Garden is targeting these areas for help. Garden researchers collaborate with local institutions, schools, and indigenous peoples to create awareness, offer alternatives, and craft conservation strategies. We are striving for a world that can sustain us without sacrificing prosperity for future generations, a world where all people share a commitment to manage biological diversity for our common benefit.

St. Louis, Research Hub

While the Missouri Botanical Garden maintains research and conservation operations around the world, here in St. Louis, the Garden offers tremendous resources, creating a hub of botanical research. The Garden publishes two of the world's most important botanical journals—*Annals and Novon*—in addition to dozens of books annually. The Garden maintains one of the world's best botanical research libraries and one of the world's largest herbaria (a library of plant specimens; ours has 5.8 million). The Garden also maintains strong ties with local St. Louis universities, sponsoring graduate students each year.

Meanwhile, Garden staff are working to share these resources by placing them on the Internet. Already, the Garden has developed and now maintains TROPICOS®, the world's largest online database of botanical information. Thanks to recent grants from the Andrew W. Mellon Foundation, the W.M. Keck Foundaiton, the Institute of Museum and Library Services, and the U.S. Department of Agriculture, the Garden is adding entire volumes of rare or inaccessible primary research literature and documented images of herbarium specimens to our online holdings. Work is ongoing, but is considered a tremendous boon to scientists in the developing world, who would not otherwise have access to these rare works and collections.

Read more about research and conservation at the Garden's website, www.mobot.org.

Around the Globe

North America

- The Garden is the editorial center for the *Flora of North America*, a catalog of all 21,000 plant species on the continent and a collaboration of 30 **U.S.** and **Canadian** institutions.
- Collaboration with University of Missouri to develop standards for accurate identification of medicinal herbs used in dietary supplements.
- With Missouri Department of Conservation, published a revised *Flora of Missouri*.
- The Garden collaborates on a new checklist of the plants of **Mexico**.

Mesoamerica

The rugged region from southern Mexico through Panama joins two great continental land masses. The region is of exceptional biological diversity.

- **Costa Rica** has a Garden botanist in-country, who collaborates on the Spanish-language manual of Costa Rican plants.
- In **Nicaragua**, Garden researchers conduct conservation assessments of endangered species utilizing the Garden-published *Flora de Nicaragua*.
- **Panama** was home to the Garden's first field research, begun in 1926.

South America

The neotropics of S. America has the richest biological diversity in the world, with more than one-third of all plant species. One-sixth of the world's species occur in just three countries—Colombia, Ecuador, and Peru—an area one-third the size of the U.S.

- In **Colombia**, Garden researchers are working on a checklist of plants from the Antioquia region.
- **Ecuador** has had an in-country Garden curator for over 25 years. Recently, the Taylor Fund for Ecological Research has funded research into the previously unexplored Cordillera del Cóndor. In addition to helping develop the National Herbarium in Quito, the Garden provides ongoing support for Ecuadorian botanists and conservation.
- In **Peru**, the Garden curator-in-residence works extensively with local botanists, universities, and indigenous people in multitiered programs for more than 30 years. New programs include sustainable community agriculture and conservation initiatives.
- In **Bolivia**, the Garden's resident curator leads research and conservation training programs, and collaborates with Bolivian botanists to compile an inventory of the Madidi National Park.
- In **Brazil**, the Garden is offering assistance on the newly begun checklist of Brazil.
- Garden scientists are collaborating with colleagues in **Chile, Argentina, Paraguay,** and **Uruguay** to compile a checklist of temperate South America, popularly referred to as the "Southern Cone."

Africa

With nearly 800,000 specimens from Africa in the herbarium, the Garden is the recognized U.S. center for the study of African botany. Recently, the Garden has completed digitization of the entire collection of African plant specimens.

- **Madagascar** is a biologically rich island nation off the east coast of Africa, where the Garden has sustained a research program for decades. Two resident botanists are stationed in the capital; they work with a talented staff of 50 local Malagasy botanists and botanists-in-training. The Garden has supported the expansion of the herbarium there, a multi-tiered botanical training program, and development of conservation initiatives and publications.
- In **Tanzania**, the Garden's program has been modeled on the very successful program in Madagascar. Collecting and preparation of inventories continues.
- The Garden's resident botanist in **Gabon**, in Central Africa, has completed a checklist of plants in the Lopé-Okanda Reserve.
- Garden researcher Corneille Ewango, of the **Democratic Republic of Congo**, was awarded the Goldman Prize in 2005, considered the "Nobel prize for the environment."
- In **Ghana, Kenya, Zambia, Cameroon, Malawi,** and **South Africa**, Garden researchers lead training, research, and field work projects, as well as botanical inventories to help guide conservation decisions.

Asia & Pacific

The Garden plays a pivotal role in opening the rich biological diversity of China to Western scientists.

- In **China**, the Garden is part of a monumental multinational project to produce the first English-language edition of the flora of China.
- Researchers in **Korea** and **Thailand** have produced a checklist of all the mosses in these moss-rich nations.
- **Vietnam** hosts a resident Garden botanist in Hanoi, who collaborates with local universities, peoples, and schools to provide conservation training and compile an inventory of endangered plants and animals.
- On the island of **New Caledonia** in the South Pacific, Garden researchers have discovered several new species and are helping to organize a conservation strategy.
- Garden scientists in recent years have gone on collecting expeditions to **Turkey**, and as one of the first Western science groups admitted in decades, to **Iran**.
- A catalog of rare and endangered plants of Central Asia was published after researchers inventoried **Kazakhstan**.
- Permanent collaboration is established in the **Republic of Georgia**, and the Garden is helping to screen plants for chemicals of pharmaceutical interest in Tbilisi.

From the field:

Citizen Science in the Mountains of Vietnam

Halong Bay, a World Heritage Site in northern Vietnam, is not only beautiful, but extremely biodiverse as well.

Today in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever before we can determine their uses or role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active botanical research program in the world, with operations in 35 countries and every continent but Antarctica.

Since the advent of *doi moi* or "renovation" of economic policy in 1986, the citizens of Vietnam have enjoyed improved living standards in this once desperately poor and densely populated nation. By the late 1990s, however, scientists observed that the country's rapid opening of an international market economy had a negative impact on the environment. Deforestation, illegal timber trade, and wildlife trafficking threatened to destroy Vietnam's natural resources, rendering thousands of unique species extinct. But what seemed worse: not many citizens noticed or cared.

Jack Regalado collecting plants in limestone forest in northern Vietnam

In 1998, with support from the National Science Foundation, the Missouri Botanical Garden established the Vietnam Botanical Conservation Program and opened an office in Hanoi. Dr. Jack Regalado has run the program for the last five years, working to change minds in Vietnam, elevate environmental awareness in the general public, and train a village of "citizen scientists."

"We are incorporating local people's knowledge in natural resource management," says Dr. Regalado. "Participation in these programs has grown, but it is still a race against time."

Vietnam is one of the most biologically diverse countries in the world. In an area the size of the state of New Mexico, Vietnam holds an estimated 12,000 plant species—roughly 3.2 percent of the world's biological diversity. Compare this to the 21,000 in *all of North America* and you get some idea why this Southeast-Asian nation is considered a biodiversity hotspot. The proportion of endemics, or plants found only in Vietnam, has been reported as high as 50 percent in the mountains of northern Vietnam.

Since 2002, the Missouri Botanical Garden has trained 16 forest protection officers, 132 park rangers, 51 junior staffers of partner institutions, 24 undergraduate students, and 9 graduate students—including two Vietnamese students who received Master's degrees from the University of Missouri in St. Louis. This dramatic increase in knowledgeable personnel has helped scientists to document quickly the rich biodiversity that is being threatened by habitat destruction and to work with local agencies to prioritize conservation areas.

"These collaborative efforts have resulted in exciting plant discoveries," says Dr. Regalado. "In the past decade, more than two hundred new species have been described." These include new ferns, conifers, orchids, and cycads, those ancient palm-like plants that flourished during the age of dinosaurs. "Only 10,000 of Vietnam's 12,000 plants have been documented. Who knows what else we might find, if only we have time?"

The Garden has received grants supporting programs in Vietnam from the Henry Luce Foundation; the John D. and Catherine T. MacArthur Foundation; and the Conservation, Food, and Health Foundation. A new grant from the Henry Luce Foundation supports the expansion of research and conservation programs into neighboring Laos and Cambodia.

How can something so beautiful be so destructive?

On November 30, a powerful early-season winter storm left the St. Louis region coated in ice and over 500,000 households out of power. The Garden maintained power, but closed a few hours early on Thursday. By 10 a.m. on Friday, Garden horticulture staffers, toiling since the dead of night, had cleared most paths to a safe condition. The outdoor component of Chihuly's *Glass in the Garden* did not sustain injury, but accumulations of ice damaged trees everywhere in the area, especially evergreens. About 90 trees sustained damage at the Garden, and approximately 20 trees were completely lost.

"Almost all the debris was fresh damage and not remnants of July's storm," says Horticultural Supervisor Ben Chu, referring to the devastating wind storm that destroyed 70 trees at the Garden this summer. "Breakage was Garden-wide, with many of the weaker wood species—pines, birch, silver maples, tulip trees, sweetgums—most heavily impacted. Additional damage was due to the sheer ice load bending branches in half, particularly on elm and birch species. Several pines in the Japanese Garden were uprooted by the heavy ice load on the tree crown." Replanting will be slow and thoughtful, but costly.

Henry Shaw Fund

Every December, the Garden makes a year-end appeal for gifts to the Henry Shaw Fund, our most critical source for general operating support. Monies from this fund are used to maintain the Garden and respond to emergencies, such as these catastrophic storms. Garden members have once again led the way in contributions, and thousands of dollars have been raised to date.

If you have not done so already, it's not too late. Your tax-deductible donation will help the Garden continue the many programs and exhibits offered each year, expand our science and math education programs, strengthen our efforts to promote conservation and biodiversity, and preserve the beauty of more than 79 acres of horticultural displays. To make a gift to the Henry Shaw Fund, please call the Office of Institutional Advancement at (314) 577-9500.

photo by Heather Arora

Tributes

September-October 2006

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

In honor of

Mrs. Althea Barnhart
Heather Rose Friends

Mr. and Mrs. Wayne J. Bennetsen
Mr. and Mrs. Roy C. Postel

Mrs. Maxine Bierman
Vida and Bob Sax

Mrs. Harriet Brooks
Mr. Ernest A. Brooks

Mr. and Mrs. Charles R. Brown, Jr.
Mr. David R. Ganz
Mr. and Mrs. John A. Nischwitz

Rosemary and Loyd Cagle
Mr. and Mrs. Robert W. Nolan

Amanda and Eric Carlson
Ellen and Henry Dubinsky

Dr. James P. Crane
Margie and Martin Jaffe

Mrs. Jean Crowder
Su-Ellen Viscuso-Serkes

Mrs. Daniel J. Devereux
Mrs. Edwin L. Noel

Mr. and Mrs. Michael L. Drohlich
Elaine Tenzer

Mr. and Mrs. Ralph Edwards
Mrs. Natalie R. Dohr

Mr. Daniel L. Gravens
Rowena Clarke Garden Club

Mrs. Jack Harrison
Mrs. Suzy Seldin

Mr. Jim Higgins
Judy and Stanley Allen

Jim and Sheila Hoffmeister
Mr. and Mrs. Gary R. Welker

Ashley and John Kemper
Jane and Steve Mitchell

Chris and Walt Kube
Joe and Ruth Moise

Peggy Lents
Panera Bread Foundation

Mr. and Mrs. Robert E. Lischer
Mrs. Natalie R. Dohr

Mr. and Mrs. Gerald A. Lucas
Ms. Doris T. Abrams

Ms. Anna Amelia Mahon
Mr. Michael Mahon

Mrs. Jaime Scott Meier
Mr. and Mrs. Dale B. Dendtler

Mr. John L. Meier III
Mr. and Mrs. Walter G. Stern

Chuck and Linda Miller
Ms. Shirley Potter

Robert and Grace Moeller
Mr. and Mrs. John J. Meyer
Dave and Sharon Stephens

Mr. and Mrs. Joseph E. Moise, Sr.
Mr. and Mrs. Leighton Wassilak

Travis Scott Penna II
Mr. and Mrs. Neil DeForest

Mrs. Barbara Rosen
Mr. and Mrs. Rick Halpern

Mrs. Ivette Rothschild
Mr. and Mrs. S. I. Rothschild, Jr.

Don and Kelly Santel
Paul and Nancy Browning

Mr. and Mrs. Jim Squires
Mrs. Jerrel D. Smith

Mrs. Gayle Stratmann
Ms. Beverly Govreau

Sunrise Assisted Living
Mrs. Rochelle Ferdman
Ms. Francie M. Futterman

Ted and Liza Thornhill
Linda and Don Yatkeman

Mrs. Brenda Ward
Mr. Michael L. Kohn

Jeffrey and Jessica Wax
Hillary, Marc, David and Craig Flanders

Ethel Wegener
From her Family

Dr. and Mrs. Gordon R. White
Mr. Bernard D. Tischler and Ms. Jean Schneider

Emmagene Wohlberg
Mrs. Gloria D. Merlotti
Mrs. Marian R. Shillato

In memory of

Dr. Charles Caspari Abel
Mr. and Mrs. Charles W. Oertli

Mr. William Barnhart
Ms. Judy Dorwart

Mrs. Martha H. Belzer
Ms. Jean O. Bartel

Mr. William Benser
The George L. Lisle Family

Colonel John Binder
Ms. Nancy A. Sachar

tributes continued...

Ms. Jane Burkemper
Cousins for the Cure

Mr. Dominic Cannon
Ms. Kim Gladstone

Mrs. Bobby Cox
Ruth Breimeier
JoAnn Brockman
Arline Curry
Earlene Dalton
Pat Lloyd
Pat Price
Sandy Terrill

Mr. Ronald G. Crouse
The Codells
Nancy Crouse
Helen and Robert Doolittle
Northside Middle School
Kerry and Alice Richmond
John and Jule Ward
Judy Yordon

Joyce Ann Dill
Friends and Family

Mrs. Mary Darst Donnelly
Mr. and Mrs. Paul P. Weil

Mrs. Phyllis Dubinsky
Mrs. Myra Dubinsky

Mrs. Pauline G. Dunbar
Heather Rose Friends

Ms. Kanza T. Easterly
Ms. Katherine J. Strong

Mr. Herman Easterly
Ms. Katherine J. Strong

Mrs. Lee Emerson
Mr. and Mrs. Donald S. Taticek

Mrs. Veronica Engelter
Eric and Terry Blank

Mr. H. Bruce English
Tom and Anne Hizar
Nancy Keefer

Mr. Eugene A. Esker
Mrs. Dolores M. Wente

Mrs. Irma M. Fiebelman
Jean G. Brumback

Mr. James Edward Fraizer
Ms. Nancy Bybee
Mr. and Mrs. Michael L. DeCamp
Mr. and Mrs. John M. Harnish, Jr.
Ms. Tricia Heliker
Hope Development Partners
Mr. and Mrs. Gary House
Mr. and Mrs. Glenn House
Mr. and Mrs. Richard L. Mersinger
Ohmer Family: Steve, Roberta, Rachel, and Rebecca
Mr. and Mrs. Thomas R. Rhodenbaugh
Mr. and Mrs. Doug Samsel
Mr. and Mrs. Roy E. Smith
Mrs. Margo Todd
Mr. and Mrs. Joseph E. Trossauer
Mr. and Mrs. Del Yohn

Mr. Eugene Franz
Mrs. Constance Riley

Mother of Lori Franzel
Alan Gernstein and Ilene Wittels

Ms. Julia C. Futterman
Mrs. Rochelle Ferdman
Ms. Francie M. Futterman

Mrs. Elene L. Ginsburg
Mr. and Mrs. Paul P. Weil

Mr. John Givens
Miss Wilma M. Metzger

Mrs. Susan Glass
ASC/Information Technology Department at Ameren Services

Mrs. Jean Goding
Mrs. H. Ivis Johnston
Mr. Stephen T Kohlbry
Mrs. Richard E. Lord
Mrs. Lee Routman
Mr. and Mrs. James Russell
Mr. and Mrs. Arthur E.S. Schmid
Mr. and Mrs. Carl Trauernicht, Jr.

Mother of Art Gomes
Kelly Bermel and Family

Mr. Harold Gruenberg
Ms. Anne Draznin

Mary Howard Fentress Hall
Ms. Louise Tessson Hall

Mrs. Joyce E. Harley
Christine Mackey-Ross
Maureen Whitsett

Mrs. Amy Jane Harrison
American Electric Power-Central Ohio Region

Mr. Bill Hart
Mr. Harry F. Glenn

Mrs. Susan Niekamp Hecker
Mr. Richard D. Schreiber

Mrs. Margaret Heitzeberg
Mrs. Muriel J. Sommer

Ms. Nancy B. Helms
Dr. and Mrs. Leon R. Robison III

Elvira Raab W. Herbel
Dr. Dixie Dysart

Helen Wallace Hoffmann
Janet W. Hoffmann

Mr. Jerry Hornby
Ms. Nancy W. Welton and Mr. George L. Lisle

Mr. Benjamin D. Houlihan
Alison and Tim Pagliara

Miss Mary Hubel
Miss Ann Hubel and Mr. George Hubel

Ms. Martha Hudson
Mr. Don J. Riehn

Mr. Dominic T. Intag
Ms. Marcella G. Hoehne

Mrs. Dorothy Jacobs
Mr. and Mrs. Raymond A. Wiegert

Ms. Cathy Johnson
Dr. Richard B. Whiting

Dr. Ruth Kauffman-Johnson
Dr. and Mrs. Charles W. Cheek

Mr. Ralph R. Kinyon
Mr. and Mrs. Scott W. Andrews
Conner Ash P.C
Mr. and Mrs. William N. Curson
Dennis W. and Donna Hanlen
Mr. and Mrs. Roland G. Jonas
Mr. and Mrs. Vernon E. Koester
Mr. and Mrs. Charles A. Lauber
Mrs. Vickie Powers
Mr. and Mrs. John H. Sanders
Mr. and Mrs. Otto N. Tucker, Jr.
Mr. and Mrs. Michael N. Valenta
Ms. Barbara Wind
Mr. and Mrs. Edwin C. Wind

Mrs. Victoria H. Knoerle
Mr. Allen Irwin
Miss Rhea E. Signaigo

Mrs. Marjorie L. Korte
Mr. and Mrs. Dick Ruhland

Mrs. Mary Cornelia Freeman LaCour
Ms. Katherine E. Chubb
Ms. Helen K. Kersten

Mrs. Grace Ellen LaMear
Mr. Robert E. LaMear, Jr.

Mrs. Edna Lee
Mr. Fred J. Rock and Mr. James V. Moore

Mrs. Frances Lesmeister
Donald and Anne Hemmer

Mr. Ray Lieberman
Gail and Bob Mielziner

Mrs. Joan Louise (Thym) Long
Mr. and Mrs. Edward J. Anderson
Mrs. Catherine Ballom
Mr. David E. Berndt
Mrs. Marilyn J. Boettcher
Mr. and Mrs. David E. Bouchein
Ms. Elamay L. Burns
Dave and Cathy Burns and Family
Dr. and Mrs. Neil Clements
DataServe Friends and Family
Ms. Miriam S. Dennis
David, Rita and Natalie Ernst
Mike, Kim and Alex Ernst
Anita and Nicholas Fehrenbach
Mr. James B. Fox
Ms. Lois Fruth Gale
Ms. Lucille Haller
Mrs. Elizabeth A. Heitman
Mr. and Mrs. Dale A. Jacobs
Mr. and Mrs. William W. James
Mrs. Kristi Kush
Ms. Bernice J. Matt
Dr. Judith Hood McKelvey
Mr. and Mrs. Jim Minard
Ms. Maria Moore
Paul, Diane and Jay Morris
Mrs. Mary Jean Morrissey
Mr. Charles W. Noonan
Mr. and Mrs. Carl Opich
Mr. Bhavik Patel
Bill, Joyce and Kathy Robb
Ms. Louise Rogers
Rubin Brown LLP
Dr. and Mrs. Michael D. Rush
Dale and Jackie Ruthsatz
Amy and Andrew Ryan
Mr. John M. Sandman
Mrs. Betty L Schwarz
Mrs. Carmen Sertl
Mrs. Ruth Thym Smith
Mr. and Mrs. Robert C. Sollmann
Mr. and Mrs. Bernard G. Stever
Tennis and Birthday Club Friends
Ms Malinda Terreri
Sally T. Tucker
Ms. Renee Volz
Mr. and Mrs. Joseph C Wagner and Sons
Ms. Virginia C. Wineland
Ms. Sylvia Zeedan and Ms. Helen Zeedan

Mr. Glenn Lueke
Ms. Janice Abernathy
Temple and Esther DeCamp
Mr. James Desmond
The Gutdayzkes
Lance, Joni Sam and Brody Hackett
Glenn and Ellen McCoy
Mr. and Mrs. Warren McPherson
Jackie Merritt
Mr. and Mrs. James Mikes
Mrs. Mary E. Robertson
Mr. and Mrs. Stewart H. Strassner
Mr. and Mrs. Thomas J. Weinkauf
Ms. Patti Wendt

Ms. Helen Manville
Peggy and Dan Dunbar

Margarete and Joy
Dr. and Mrs. Martin J. Rafanan

Mrs. Lois C. McCall
The Cook Family
Miss Marian L. Herr
Mr. and Mrs. Angelo L. Maltagliati

Mr. John Meninger
Julie and George McAuliffe
Nancy's Golfing Girlfriends

Professor Frank W. Miller
Ms. Miriam G. Wilhelm and Mr. Eric Friedman

Professor Thomas Moisan
Mr. George L. Ashline
Mr. and Mrs. John Cantwell
Mr. and Mrs. Raymond Freese
Mr. and Mrs. Thomas W. Hungerford
Mr. and Mrs. Kevin T. Manche
Father Michael May, S.J.
Mr. Ryo Ohashi
Ms. Julianne G. Rainbolt and Mr. Christopher H. Geering
Saint Louis University Department of Mathematics and Computer Science
Ms. Catherine Stenson and Mr. John Bukowski
The Educational Advancement Foundation
Mr. and Mrs. Shiou Wei Sunny Tsau
Mr. and Mrs. Douglas S. Twells

Mrs. Patricia Claire Monika
Mr. Christopher T. Monika

Ms. Irene Murdick
Henry Shaw Cactus Society

Mrs. Bernice Nolte
Mr. and Mrs. Barry F. Baker
Mr. and Mrs. Robert L. Jung
Mr. and Mrs. J. Timothy Myers
Mr. Eric Pellarin and Ms. Margaret Burke
Mrs. Kathy Scannell and Family

Mrs. Doris Oglander
Ms. Rose Mass

Mrs. Eva O'Reilly
Mr. and Mrs. Matt Biffignani
Ms. Francie M. Futterman

Sophia M. Sachs Butterfly House Pavers and Tributes

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in September-October 2006.

Tributes

In memory of

Mrs. Shirley Johnson
Mr. and Mrs. James Keefe

Mr. Leroy Kanterman
Sophia M. Sachs Butterfly House Staff

Caleb Z. Nehring
Mr. and Mrs. Gary Wehmeier

Mrs. Betsy Ryland
Ms. Jackie Juras
Sophia M. Sachs Butterfly House Staff

Tiffany Souers
Mrs. Sheryl J. Bauer and Ms. Lindsay Bauer
Edward Jones
Mr. and Mrs. Robert T. Fraley
National Charity League, Inc.

Mr. Noman Zarich
Dr. and Mrs. Jules M. Snitzer

Pavers

Cherrie and Winton Briscoe
Joyce L. Briscoe

Rosemary and Loyd Cagle
Your Friends in Chesterfield Hill

Eleanor, Sanford, Violet
Sandra A. Engber

Megan and Mackenzie End
Armarie Murphy

Frances and Jim Griffin
Jill F. Griffin

Logan M. Hamilton
Kenneth C. Halveland

Harvey Sherman
Barry Sherman

Mary M. Stoner
Mr. and Mrs. Ron Kitchen

Berniece Marie Wisdom
The Knights, Fishers, Strongs, Hegedus', Paul and Joyce, Lanigans, Rita

Mrs. Luella Ostendorf
Mr. and Mrs. Walter G. Stern

Mr. John E. Peckham
The Lowe and O'Donnell Families

Mrs. Ruth G. Pinckard
Mr. Alan M. Gerstein and
Dr. Ilene G. Wittels

Mrs. Jewel B. Piper
Ms. Kathryn Church
Mr. Wayne Church
Ms. Arlene Hazlett
Ms. Laura Parsons

Mrs. Hilda Louise Rauh
Mr. and Mrs. Ronald E. Rauh

Mr. Robert Z. Reed, Jr.
Mrs. Sophie Connor

Mr. Richard Reichman
Mr. and Mrs. Robert Goldwasser
Mr. and Mrs. Thomas S.
Goldwasser

Ms. Geniveve Reynolds
Jim and Nancy Berthold

Mrs. Marion Roffer
Mr. and Mrs. Tom Csengody

Mrs. Marge Ruschill
Mid-America Regional Lily
Society

Mrs. Betsy Ryland
Mrs. Katie Kelly

Dr. Andrew C. Scallet
Dr. and Mrs. Alan Stein

Mrs. Pauli Renfrew Scharff
Mrs. Jutta Z. Buder
Ms. Skippy Dennis
Mrs. Alice R. Goodman
Mrs. Arthur C. Hiemenz, Jr.
Mr. and Mrs. Pete G. Koronis
Ms. Shelley Mandel
Mr. and Mrs. George Z.
Nikolajevich
Mr. and Mrs. William J. Postal

Mr. David Schroeder
Mrs. Ellen Ross

Noah Jeffrey Schroyer
Tom, Jamilyn and Holden
Schroyer

Mrs. Georgia Schumacher
Mr. Charles H. Schumacher II

Mrs. Joy Scott
Mr. and Mrs. Peter
Raulston-Chrimes

Mrs. Esther Seitz
Ms. Marcella G. Hoehne

Mrs. Nancy Shocklin
Dr. and Mrs. W. Edward Lansche

Mrs. Dee Sinnard
The Berry Family
Mr. Tim Dudenhoeffer
Mr. and Mrs. Michael G. Geen
The Sam J. LoPorto Family
Mr. Donald S. Noot
Mr. and Mrs. Steven Perkins, Sr.
Mr. and Mrs. Darren Schmiemeier
Mr. and Mrs. William T. Siebert
Ms. Kathy Wehrle-Boyer
Mr. and Mrs. Stanley J. Williams

Dr. James C. Sisk
Dr. and Mrs. John C. Martz

Mrs. Geraldine Epp Smith
Mrs. Betty J. Bohren
Ms. Chris Denis
Mrs. Lillian E. Finn
Mr. and Mrs. C.B. Gebhard
Mr. and Mrs. Joseph F. Gleason
Miss Dorothy M. Hanpeter
Mrs. Mary L. Ewing Krone
Mrs. Maxine A. Kunkel
Mrs. Elaine F. Maxeiner
Mr. and Mrs. Arthur L.
McWilliams
Ms. Jaclyn Meyer
Mrs. Gladys H. Myles
Ms. Sue Ann Wood Poor
Dr. Verna I. Green Smith
Mr. and Mrs. William W. Stewart
Mr. and Mrs. Clarence M.
Turley, Jr.
Ms. Nancy W. Welton
Ms. Dorothy A. Wiegelman
Mr. and Mrs. Michael D.
Zaccarello

Dr. Dennis Spellmann
Dr. Daryl Anderson and
Ms. Anne Ortwerth

Mr. Mark Temme
Mr. and Mrs. Matt Biffignani

Ms. Lynn Terpstra
Mr. and Mrs. Robert Weinstein

Mrs. Lorraine Tucker
Mr. and Mrs. Robert Levy

Mr. Gene Utt
Mrs. Cheryl Budwell

Ms. Lloyd Ellen Vahle
M. Renee Pellegrino and
Joe and Tony

Mrs. Marie R. Vail
Ms. Margaret Yanevich

**Mrs. Genevieve E.
Van Buren**
Mr. and Mrs. Glenn H. Bartels
Mr. and Mrs. Fred Blasberg
Mr. Robert E. Crawley
Mr. and Mrs. Robert L. Crowe, Sr.
Ms. Joyce A. Foster
Mr. and Mrs. William E. Gaffney
Mr. and Mrs. Burton D.
Garland, Jr.
Mr. and Mrs. Ronald L. Haring
Ms. Cassy Hedges
Ms. Joan M. Huelsing
Mr. and Mrs. Rusty Johnson
Ms. Julie Kalk
Mr. and Mrs. Leonard C. Kirberg
Mr. and Mrs. Al Meinen
Mr. and Mrs. Albert D. Meinen, Sr.
Mr. Bruce Mills
Ms. Donna Rae Reichardt
Mr. and Mrs. Bernard G. Stever
Mr. and Mrs. Thomas Vander
Weide
Mr. and Mrs. Wilson
Rev. Karen Kiske-Zimmerman
and Mr. Wayne Zimmerman

Mrs. Grace Vogt
Mrs. Marjorie Tooker

Louis and Janice Washauer
Mrs. Ellen Ross

Dr. Hugh Waters
Mrs. Charles T. Fike

**Mrs. Rosemary Hyer
Watson**
Mr. and Mrs. Richard B.
Rosenthal

Mr. Scott Watson
Mrs. Ellen Ross

Mr. Gus R. Wegener
Dr. and Mrs. Robert M. Voelker

Mrs. Clydia Leona Wewers
Mr. and Mrs. Donald F. Boehm

**Mrs. Anne Kampelman
Wiederkehr**
Ms. Anne L. Draznin

Mr. Robert L. Wilucki
Mr. and Mrs. Lawrence G.
Goldfarb

Miss Kate Winters
Mr. and Mrs. Bernard A. Barken

photo by Heather Arora

Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information. Or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from September through October.

Bronze signature bricks

Emma Louise Behrens
Estate of Miss Emma
Louise Behrens

Joyce Ann Dill
Family and Friends of
Joyce Ann Dill

Kathleen L Fingleton
Mr. and Mrs. Thomas D.
Fingleton

Lillian C Folk
Ms. Lillian C. Folk

Dennis Heidbrink
Mrs. Patricia Crocker

Karen and Jerry Kauffman
Mr. and Mrs. Jerry Kauffman

Christa E. Rariden
Ms. Sharon Dean
Ms. Janice Elliott

Tim and Lynne Schroeder
Mr. and Mrs. Tim Schroeder

Engraved clay bricks

Agnes Farrell Adams
Ms. Vivian Farrell

Jeffrey Lynn Champlin
Mrs. Denice Champlin

Dean and Karen III
Anonymous

Ellen Dubinsky
Nora Stern
Members' Board

Kanza T Easterly
Easterly Family

Mary Farrell Edwards
Ms. Vivian Farrell

Patricia Claire Monika
Ms. Patricia C. Monika

Missouri Botanical Garden

4344 Shaw Blvd. • St. Louis, MO

January
2007

average temperature: 29.6
mean days with precipitation: 9

What's in bloom? download the podcast at www.gardenhelp.org

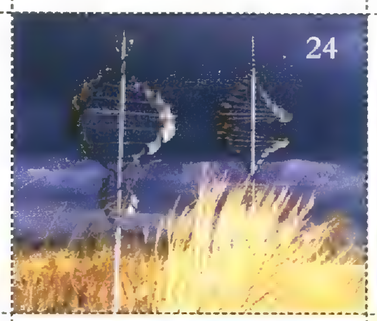
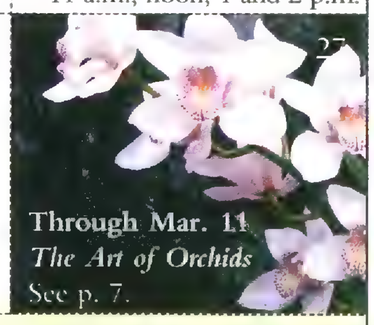
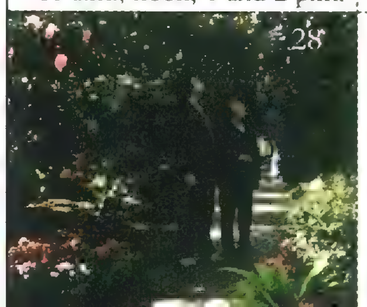
Camellias

Fragrant olive

Berries

Ozark witchhazel

Ornamental grass

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	New Year's Day 01 ■ Last day to see Chihuly's *Glass in the Garden* and Gardenland Express, 9 a.m. to 5 p.m. ■ **Through Jan. 15,** Butterfly House is closed.	02 ■ **Through Jan. 26,** FREE Garden admission. Climatron and Temperate House closed.	03	04	05	06
07	08	09	10 ◂ **Through Feb. 26,** prairie watercolors by George Olson	11 ■ Native Plant School: Winter Pruning. SNR. $☎	12 ■ Camp BUGaloo: Bugs. BH. 10 a.m. $☎	13 ■ BUZZ: Amazing Insect Feats. BH. 10 a.m. $☎
14 ■ Camp BUGaloo: Bugs. BH. 12:30 p.m. $☎	Martin Luther King Day 15	16	17	18 ■ Green Building Series: Green Rooftops. SNR. $☎	19 ■ Camp BUGaloo: Bugs, 10 a.m., BH. $☎	20 ■ New exhibition opens. BH. See p. 15. ■ Hot, Hot, Hot! BH. 10 a.m. to 2 p.m. See p. 15. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.
21 ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.	22	23 ** **Members' Day.** Butterfly House, 11 a.m. See p. 7.	24 	25	26 ** **Members' Orchid Show Preview.** See p. 7.	27  **Through Mar. 11** *The Art of Orchids* See p. 7.
28 	29 ◂ Don't miss the camellias in the Linnean House this month!	30	31 ** **Members' Day.** St.L Trivia, 11 a.m. See p. 7.			

Closures: Tower Grove House, Garden founder Henry Shaw's Victorian home, is closed in January and February. Climatron and Temperate House closed most of January. Narrated tram tours are not offered during the winter months. The Garden Gate Shop also will be closed for inventory and renovation during part of January. The Little Shop Around the Corner will be closed to shoppers in January, but continues to accept donations. The Butterfly House will close January 1–15 to undergo annual maintenance. The Membership Services Desk will be closed Monday through Thursday in January and February.

February
2007

average temperature: 35.4
mean days with precipitation: 8

What's in bloom? download the podcast at www.gardeninghelp.org

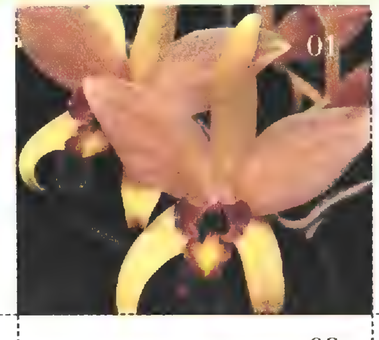
Orchid Show

Clerodendrum bush

Tropicals in the Climatron

Snowdrops

Snow crocus

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	◂ **Black History Month** Visit the Garden for a variety of black history related weekends in Feb.	**Reminder:** Register now for spring classes and tours. Visit www.mobot.org.	**Summer FUN for Kids!** This summer, the Garden is the place for discovering, playing, and creating in nature! Visit www.mobot.org/education on Feb. 1 to see offerings. Members' discount and early enrollment applies.	01 	Groundhog Day 02	03 ** **Members' Day.** Worm Composting. See p. 7.
04 ** **New Member Orientation** See p. 7. ■ Backyard Birding Festival. $☎	05	06	07	08 ■ Native Plant School: Controlling Invasives. SNR. $☎	09 ■ Camp BUGaloo: Blossoms. BH. 10 a.m. $☎	10 ■ BUZZ: Pinning Class. BH. 10 a.m. $☎ ** **Members' Valentine's Day Dinner Dance.** See p. 7.
11 ■ Celebrate the Gospel. See p. 9 ■ Camp BUGaloo: Blossoms. BH. 12:30 p.m. $☎	12	13	Valentine's Day 14	15	16 ■ Camp BUGaloo: Blossoms. BH. 10 a.m. $☎	17 ■ Carver Days. See p. 9. ■ Missouri Orchid Society show and sale, 12 to 5 p.m. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.
Chinese New Year 18 ■ Carver Days. See p. 9. ■ Missouri Orchid Society show and sale ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.	President's Day 19	20	Ash Wednesday 21	22	23	24 ■ Gardening Blitz W $☎ See p. 10. ◂ Sugared, Spiced, Everything Iced
25 ▸ Gardening Blitz Weekend. $☎ See p. 10. ■ Sugared, Spiced, Everything Iced	26	27				

BH = Butterfly House
EWC = EarthWays Center
GGS = Garden Gate Shop
LS = Little Shop Around the Corner
SNR = Shaw Nature Reserve

** denotes a members-only ever
$ denotes an additional fee
☎ denotes reservations required
■ Guided walking tours, 1 p.m. dai
■ Early morning walking, every Wed. and Sat. from 7 a.m.

3 1753 00339 9463
Missouri Botanical Garden Library

photos by Jack Jennings, www.mobot.org/gardeninghelp, Emily Snider, Erin Whitson, and Kevin Wolf.

Contents

News 2
Membership 6
Events 8
Home Gardening 10
Garden at Large 14
Eye on: Research and Conservation 16
From the field: Vietnam 18
Development and Tributes 19
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Catering/Rentals ..... (314) 577-0200
Education ..... (314) 577-5140
Garden Gate Shop ..... (314) 577-5137
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Institutional Advancement .... (314) 577-9500
Hort. Answer Service ..... (314) 577-5143

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Paphiopedilum*, Lady's Slipper Orchid, photo by Josh Monken

©2006 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110. Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

photo by Justin Visnesky

It's winter...time to feed the birds! What better way than with this beautiful Zen bird feeder.

Members' Days: receive 20% off in the Garden Gate Shop and 10 % off at Sassafras on January 31 and February 3.

Garden Gate Shop | (314) 577-5137
9 a.m. to 5 p.m. daily. Closed January 2–23.
Fine gifts, plants, accessories, and jewelry.

Little Shop | (314) 577-0891
10 a.m. to 4 p.m. Tues.–Sun. Closed Januar
Antiques and collectibles. Donations welcon

sassafras (314) 577-9471

Catering St. Louis | (314) 577-0200
Now booking 2007-08
parties and events
at the Garden.

Missouri Botanical Garden
P.O. Box 299 • St. Louis, MO 63166–0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

QK1
.M593
v.2

MISSOURI BOTANICAL GARDEN

bulletin

March/April 2007 Vol. 95, No. 2

From the President...

Springtime at the Garden brings some new additions—and not just the 90,000 bulbs about to burst into bloom. *Glass in the Garden* ended its eight-month run on January 1, drawing 950,000 visitors and inspiring membership to a record 41,000 people. We hope you will enjoy the exciting year we have in store at the Garden.

Continuing improvements and additions are on the way, and we couldn't do it without the many people dedicated to our mission—people like the Members' Board. Allow me to welcome Carol Squires, our new Members' Board president, elected this January. We also thank Nancy Sauerhoff, former president, for a job well done.

Welcome, too, to Nicholas Reding, our new Chair of the Board of Trustees, and Carolyn Losos, our new Vice Chair. Nick succeeds outgoing Chair Scott Schnuck, recent recipient of the Henry Shaw Medal, whose tenure saw such groundbreaking projects as the installation of the Chihuly exhibition and the new Doris I. Schnuck Children's Garden. Thank you, Scott, for your dedication and leadership.

We are very grateful for the permanent addition of three Chihuly installations: the *Sunset Herons*, a pool of the *Walla Walla Onions*, and the *Missouri Botanical Garden Blue Chandelier.* Thank you to our generous donors who made these additions possible.

Return to see these wonderful pieces, and for the grand re-opening of the Children's Garden. Bursting with new activities for its second season, we know children will find a true Missouri Adventure and learn about nature in the process.

Finally, we are pleased to announce the return of Chapungu, in a new and exciting exhibit: *Chapungu: Nature, Man, and Myth.* The first of these monumental stone sculptures has already been installed in front of the Ridgway Center. We know you won't want to miss the sculpture demonstrations, African music and dancing, and *Chapungu Nights* on Thursday evenings this summer.

See you at the Garden,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

-mission of the Missouri Botanical Garden

Board of Trustees

Mr. Nicholas L. Reding, *Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. L. B. Eckelkamp, Jr.
Dr. Thomas F. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. John E. Klein
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr
Carolyn W. Losos
Cheryl Morley
Mr. Jai Nagarkatti
Veronica O'Brien
Mr. Scott C. Schnuck
Dr. Henry Gerard Schwartz, Jr
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Jack E. Thomas, Jr.
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Keinath, Jr.
Mr. Ralph Korte
Mr. Robert E. Kresko
June M. Kummer
Mr. E. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn E. Newman
Mr. William R. Orthwein, Jr.
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony F. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Carol Squires, *Chair*

MISSOURI BOTANICAL
FEB 28 2007
GARDEN LIBRARY

photo by Josh Monken

Chair Nicholas Reding, Dr. Peter H. Raven, and Vice Chair Carolyn Losos.

New Board Chair and Vice Chair

In December, the Garden's Board of Trustees elected Nicholas L. Reding to be the new Chair and Carolyn W. Losos the Vice Chair. Reding, the former Vice Chair, is a former Executive Vice President of Monsanto and current chairman of the board of directors of the Nidus Center for Scientific Enterprise. Losos is an Executive Committee member of the Board.

New Board Members

In January, the Garden's Board of Trustees welcomed two new members:

Jai Nagarkatti
President and CEO of Sigma-Alrich Corporation, Nagarkatti joined the company as a chemist in 1976. He was born in Hyderabad, India and earned his Ph.D. in Organic Chemistry at Texas A&M University. Now a U.S. citizen, Nagarkatti resides in Chesterfield with his wife Linda. They have one daughter.

Doris H. Lichtenstein
Along with her husband David, Doris has been a patron of the Garden's family for many years as part of the Henry Shaw Society and through major gifts of the David B. Lichtenstein Foundation. Mrs. Lichtenstein also serves on the boards of the St. Louis Municipal Opera, Saint Louis Art Museum, and St. Louis Zoo Foundation.

photo by Josh Monken

Outgoing Chair Scott Schnuck receives a token of thanks.

Henry Shaw Medal Awarded

In December, former Chair of the Board Scott Schnuck became the recipient of the Garden's highest honor, the Henry Shaw Medal. A Garden trustee since 2000, Schnuck was named Chair of the Board in February 2004, having previously served as Vice Chair. During his tenure as Chair, Schnuck presided over many significant changes and events in the Garden's recent history, including the construction of the new Doris I. Schnuck Children's Garden and opening of the Chihuly *Glass in the Garden* exhibit.

Since 1893, the Henry Shaw Medal honors those who have made a significant contribution to the Garden, botanical research, horticulture, conservation, or the museum community.

photos by St. Louis Noble

Members' Board

In January, the Garden held its annual meeting for the installation of new members and officers to the Members' Board. Members' Board Officers include (top from left): Paula Lampen, Second Vice President; Terry Beachy, Treasurer; Suzanne Deutschmann, Members' Events Secretary; Kathleen Dudley, First Vice President; Carol Squires, President; and Patty Heim, General Secretary. New members (bottom from left) with President Carol Squires include: Linda Finerty, Sheila Hoffmeister, Andrea Craig, Ann Case, and Phyllis Fresta. Not pictured: Lise Herren.

Sunset Herons Roost, *Onions* Stay at the Garden

Chihuly's *Glass in the Garden* exhibition is now a memory, but his *Walla Walla Onions* and *Sunset Herons* will remain at the Garden permanently. A gift from the Peters Family Charitable Fund allowed the Garden to purchase 15 *Sunset Herons*. The graceful, amber-colored water birds will remain inside the Climatron®, in a pond near the conservatory's large waterfall. Nearly 200 donors contributed to the purchase of 25 colorful *Walla Walla Onions*, which will be displayed spring through fall in the round central reflecting pool opposite the Climatron®. As announced last issue, the *Missouri Botanical Garden Blue Chandelier, 2006* will remain suspended high above the Ridgway Center main entrance, thanks to the generosity of exhibition sponsor Emerson and the estate of Mrs. Barbara Hagnauer Muckerman and Dr. Richard I.C. Muckerman, in honor of Amy J. and Hilbert W. Hagnauer.

Glass in the Garden *ended its eight-month run on January 1. The exhibition drew 950,000 visitors and helped increase overall attendance to 1.2 million and membership to a record 41,000 in 2006.*

Sunset Herons, *by Dale Chihuly, will become a permanent installation in the Climatron conservatory.*

Tower Grove House Free Admission

Tower Grove House, the Victorian country home of Garden founder Henry Shaw, reopens for the year in March, with free admission to all visitors. Hours are Tuesday through Saturday 10 a.m. to 4 p.m., Sunday 1 to 4 p.m. Closed Mondays. Self-guided tours during open hours; guided tours at 10:30 a.m. and 1:30 p.m., or by appointment. Call (314) 577-9473 extension 6397 for more information.

Worker removes an Osage orange tree damaged by last summer's wind storm.

Osage Orange Removal

The violent wind storm of July 19, 2006 has claimed another tree: one of the venerable Osage oranges (*Maclura pomifera*), which dated to the time of Henry Shaw. On Thursday, January 25, a local tree service under the supervision of the Garden's Horticulture staff, removed the tree from the Doris I. Schnuck Children's Garden. The tree had been held together with cables until it could be safely removed this winter. All of the wood from the historic tree is being preserved. The St. Louis Woodturners will create a special commemorative piece using a portion, and the remainder will be incorporated into various objects as part of the celebration of the Garden's sesquicentennial anniversary in 2009.

Consultant Elizabeth Trueblood, the Garden's Therapeutic Horticulture Program Supervisor Jennifer Smith, Garden President Dr. Peter H. Raven, and St. Louis Children's Hospital Chief Medical Officer Dr. F. Sessions Cole.

Horticulture Therapy Collaborative

In collaboration with St. Louis Children's Hospital, the Garden's Therapeutic Horticulture staff coordinated a series of botanical art workshops in 2006 for parents and families of neonatal intensive care babies. All the work produced was then incorporated into the newly renovated Neonatal Intensive Care Unit. The first of these pieces to be installed was the seed mosaic (a memorial to deceased infants). Each family created a tile covered in seeds and seed impressions, and then the individual tiles were arranged together to create a permanent artwork installation called the "Remembrance Tree."

Shop to Benefit the Garden

Grand Opening: March 3–4

The Container Store, the nation's leading retailer of storage and organization products, opens its first Missouri store in Brentwood Square, in St. Louis. As part of the opening celebration, The Container Store will donate ten percent of grand opening weekend sales to the Missouri Botanical Garden. Visit the Garden's website www.mobot.org for more details.

It's New: Chapungu!

Saturday, April 28 through Wednesday, October 31, included with admission (free for members)

Chapungu: Nature, Man, and Myth debuts April 28 with 23 monumental, hand-carved stone sculptures of animals, families, and creatures of legend. Created by artists from the African nation of Zimbabwe, this six-month exhibition depicts a traditional African family's attitude and close bond to nature and the environment.

The statues are carved from opal stone, cobalt, and springstone, all forms of serpentine native to Zimbabwe. Twenty-two will be located outdoors, grouped by theme: family, nature, and myth. One will also be placed inside the Climatron conservatory. Many more small to medium-size original sculptures will be available for purchase at the Chapungu Gallery and Gift Shop inside the Brookings Center.

photo by Justin Visnesky

On January 17, the Garden unveiled the first statue in the new 2007 exhibit, Chapungu: Nature, Man, and Myth. *The statue, "Chief Consults with Chapungu (1994)," was hewn of opal stone by artist Biggie Kapeta.*

"Chief Consults with Chapungu," a powerful opal stone sculpture by the late artist Biggie Kapeta, was installed in January in front of the Garden's Ridgway Center as a preview. Some visitors may recall this sculpture from *Chapungu: Custom and Legend, A Culture in Stone*, a major exhibition which made its U.S. debut at the Garden in 2001.

"After many successful exhibits in the U.S., it is wonderful to return with a stunning new exhibit to this beautiful garden where we were so well received in 2001," said Roy Guthrie, Chapungu curator.

No other sculptures in this collection have been displayed at the Garden, though several artists from the previous show are represented by new works. Two large sculptures from the earlier exhibition were acquired by the Garden for permanent display in the Azalea-Rhododendron Garden: "Protecting the Eggs" by Damian Manuhwa, and "Sole Provider," by Joe Mutasa. The latter was given to the Garden by the people of Zimbabwe in memory of those who died on September 11, 2001.

Many of the 19 artists represented are from the Shona tribe. The Shona people believe the "Chapungu Bird" is a good omen and brings protection and good fortune. Chapungu ("Cha-POONG-goo") is a metaphor for the Bateleur Eagle, *Terathopius ecaudatus*, a powerful bird of prey that can fly up to 300 miles in a day at 30 to 50 miles per hour. It lives in the savannahs, open forests and semi-deserts of central and southern Africa.

Chapungu Nights
Thursdays, May 3 through September 27, 5 to 9 p.m.
$10 ($5 for Garden members)
Enjoy a self-guided walking tour of the lit Chapungu sculptures on gorgeous summer evenings in the Garden with music and special entertainment. Watch the artists chisel stone into sculpture, purchase dinner and dine on the patio of Sassafras, and sip cocktails on the plaza.

Workshops
Create your own sculpture guided by a Chapungu artist-in-residence during five-day workshops held Tuesday through Saturday outdoors on the Linnean Plaza. No experience is required. The $500 fee will include a sculpting stone from Zimbabwe, a set of tools to keep, and instruction by prominent Zimbabwean artists. For more details, call (314) 577-0295.

Tours, School Groups, and Private Events
For information on private group tickets or tours, contact the Garden's Tourism Department (314) 577-0275 or tourism@mobot.org. School groups should call the Education Division at (314) 577-5140. To host a private evening event at the Garden during *Chapungu: Nature, Man, and Myth*, call (314) 577-0200.

Events

The Art of Orchids

The Art of Orchids

JANUARY 27 TO MARCH 11. *admission: $3 (free for members)*

The Art of Orchids Continues
Sat., Feb. 27 to Sun., Mar. 11,
admission: $3 (free for members)
Don't miss the last two weeks of the 2007 orchid show! Nearly 800 fragrant orchids and tropical plants in a classic conservatory setting—a welcome relief from wintery weather. Orchids are swapped out throughout the show, so return visitors are often rewarded with different colors, scents, and species.

Members' Monopod Morning
Tuesday, March 6, 9 to 11 a.m., Orchid Show
Calling all member-photographers! Monopods are not allowed in the Orchid Show, but on this one special Tuesday morning, Garden members will be permitted to bring them.

Horticultural Therapy (HT) Awareness Day
Saturday, March 24, 11 a.m. to 3 p.m.
Gardening offers relief from physical and cognitive limitations, reduces stress, gently exercises aging or arthritic joints, and stimulates memory. Join us and experience horticultural therapy through various hands-on interactive stations and plant activities for all ages.

From the Garden, Live
Sundays, March 25 through April 29 noon, Ridgway Center
Now in its 19th season, Classic 99's "From the Garden, Live"® concert series features a wide range of performers from prominent St. Louis musical groups, including the Saint Louis Symphony Orchestra. Tickets are complimentary, but required. Call (314) 725-0099 or visit www.classic99.com/pgarden.htm.

Arbor Day
Friday, April 6, 9 a.m. to 5 p.m. while supplies last, Kemper Center for Home Gardening
To celebrate Missouri Arbor Day, the Garden will give away 300 saplings, one per person, first-come, first-served. Species this year include: redbud (*Cercis canadensis*), Shumard oak (*Quercus shumardii*), and flowering dogwood (*Cornus florida*). Master gardeners will be on hand to answer questions.

Easter Brunch
Sunday, April 8, seatings at 10:30 a.m., noon, and 1:30 p.m., Sassafras
Celebrate the season at the Garden. $24.95 per adult, $11.95 per child age 12 and under (tax not included). Reservations required, so please call (314) 577-9530.

Herb Weekend
Wednesday-Saturday, April 18–21, 9 a.m. to 5 p.m., Ridgway Center
At the St. Louis Herb Society's fifth annual event, choose from a huge selection of potted fresh herbs, including new and hard-to-find ones; gift sets, the society's popular cookbook, publications, curry powder, jelly, herbal vinegar, and soaps. Herb Society members give demonstrations and guidance on planting, growing, and using herbs.

Earth Day
Saturday, April 21, 10 a.m. to 3 p.m., Garden grounds
Learn what you can do to participate in a healthy future for the planet from the environmental organizations of Earth Share of Missouri. MBG Horticulture staff will lead special, behind-the-scenes tours of the Garden greenhouses at 10 a.m., noon, and 2 p.m. Bluegrass music by the Flying Mules on Spoehrer Plaza from 1 to 3 p.m.

Learning from our Ancestors
Thursday, April 26, 4 p.m., Ridgway Center
University of Hawaii professor Dr. Will McClatchey speaks on learning from our ancestors about the future of life on Earth. *The annual John Dwyer lecture is presented by the Missouri Botanical Garden and Saint Louis University in honor of Dr. John Dwyer, who taught botany at SLU for more than 35 years.*

Tai-Chi Day
Saturday, April 28, 10 a.m. to 1 p.m., Cohen Amphitheater
A world-wide celebration of this ancient Chinese art. Local practitioners demonstrate, and visitors are invited to participate with gentle movements suitable for all ages.

photo by Erin Whitson

Eggstravaganza

New Member Orientation

Would you like to know what being a Garden member is all about? Whether you're a new or renewing member, or just curious, join us for a member orientation. You'll get the lowdown on all the benefits of membership: events, discounts, early enrollment, special parties, and more. All sessions will be held at noon in Shoenberg Auditorium and will conclude with a docent-led tour of the Garden at 1 p.m. Participants receive day-of discounts in Sassafras and the Garden Gate Shop. So, mark your calendar and bring along your friends who might be interested in membership. The 2007 dates are Sunday, May 6; Sunday, August 5; and Saturday, November 3.

Special for Members

March/April Members' Days & Events

Members' Day*: Add Success with Plants of Merit™
Friday, March 23, 11 a.m., Ridgway Center
MaryAnn Fink, Plants of Merit coordinator, offers an overview of the 2007 Plants of Merit selections. Plants of Merit are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. Come learn which plants can be winners for you!

Eggstravaganza
Saturday, March 31, 10 a.m. to 12:30 p.m., Climatron lawn
Hop over to the Garden for our annual Eggstravaganza egg hunt! Meet the "Bunny" while the little ones (ages 2-10) hunt for eggs. Egg hunts begin promptly at 10:30, 11, 11:30 and noon, so be sure to allow enough time to walk to the Climatron lawn. Space is limited, so please reserve your spot by calling (314) 577-9570. The Children's Garden will be open on Saturday, March 31, from 10 a.m. to 2 p.m. and free for all members.

Members' Evening*: The Japanese Garden Tour
Wednesday, April 25, 6 p.m., Ridgway Center
Ben Chu, supervisor of *Seiwa-en*, provides an overview of the history, style, and design concepts behind one of the largest traditional Japanese gardens in North America. After the presentation, enjoy a rare opportunity to visit the Japanese Garden after hours. Docents will be on hand to answer questions.

Members' Trip: The Culture and Antiquities of Vietnam
September 19 – October 2, 2007
With more than 2,000 miles of coastline, white-sand beaches, rain forest-covered mountains, and fertile deltas crisscrossed by a patchwork of rice paddies and canals, Vietnam is a country of stunning beauty. It has a rich cultural heritage and warm, welcoming people. Garden members are invited to join Drs. Peter and Patricia Raven onboard the 128-passenger Clipper Odyssey on a voyage to Vietnam this fall. For more information, call the Garden's Membership office at (314) 577-0221.

**Members' Days occur once a month and feature free presentations and tours. On these days, members enjoy discounts of 10 percent in Sassafras and up to 20 percent in the Garden Gate Shop and Little Shop Around the Corner.*

photo by Matt Bond

New Members' Ticketing Kiosks

Garden visitors may already have noticed the bright orange displays. Now in place, the Members' Ticketing Kiosks are designed to provide express self-service to members for admission to the Garden and the annual holiday and orchid flower shows (special events not included). Simply wave your membership card barcode before the scanner, enter the number of tickets for your party, and *voilà!*: tickets print out in only moments. Just a reminder: keep your tickets handy as you enter the Garden, since scanning may take place upstairs as you enter onto Spoehrer Plaza.

KIDSTUFF

spring into learning!

Camp MBG registration is now open.

Kids Explore More at the Garden

Parents, grandparents, and youngsters can discover the amazing wonders of nature together at a variety of programs offered this spring by the Missouri Botanical Garden. Registration is now open!

Strollerobics

CHILDREN IN STROLLERS

Strollerobics: A certified fitness instructor will guide participants pushing strollers along a path that highlights Garden areas of most interest to young children. Along the way, the group will stop to do lunges, squats, sit-ups, jumping jacks and more. This 8-week course begins the week of March 19 and is offered on weekdays from 9:30 to 10:30 a.m., or Tuesday evenings from 6 to 7 p.m. Cost: $55 per adult ($50 for members).

Little Sprouts

AGES 2–3
(with an adult)

Little Sprouts: Each week will feature a "Name the Flowers" theme and include an outdoor walk, activities, songs, story, and snack.

This six-week series begins the week of April 16 and is offered on a choice of Mondays or Tuesdays from 10 to 11:30 a.m. Cost: $108 per child ($96 for members), includes adult.

Garden Buds

AGES 4–5
(with an adult)

Garden Buds: Explore nature with your child or grandchild together using all five senses. Each 90-minute class includes an outdoor walk, hands-on indoor activities, story, and snack. Register for classes individually, or as a seven-class series. Classes begin the week of February 15 and are offered every other week on Thursdays from 10 to 11:30 a.m. or Sundays from 1 to 2:30 p.m. Cost for the series is $104 ($90 for members); individual classes are $16 ($14 for members).

Garden Kids

GRADES 6–8

Garden Kids: Classes will explore the Garden's many cultural and horticultural treasures through outdoor adventures, hands-on science, and art, as they make new friends on their journey "Around the World in the Garden."

Classes are offered on Sundays from 1 to 2:30 p.m. on February 18; March 4 and 18; April 1, 15, and 22; and May 10. Cost for the series is $104 ($90 for members).

Summer Fun: Camp MBG

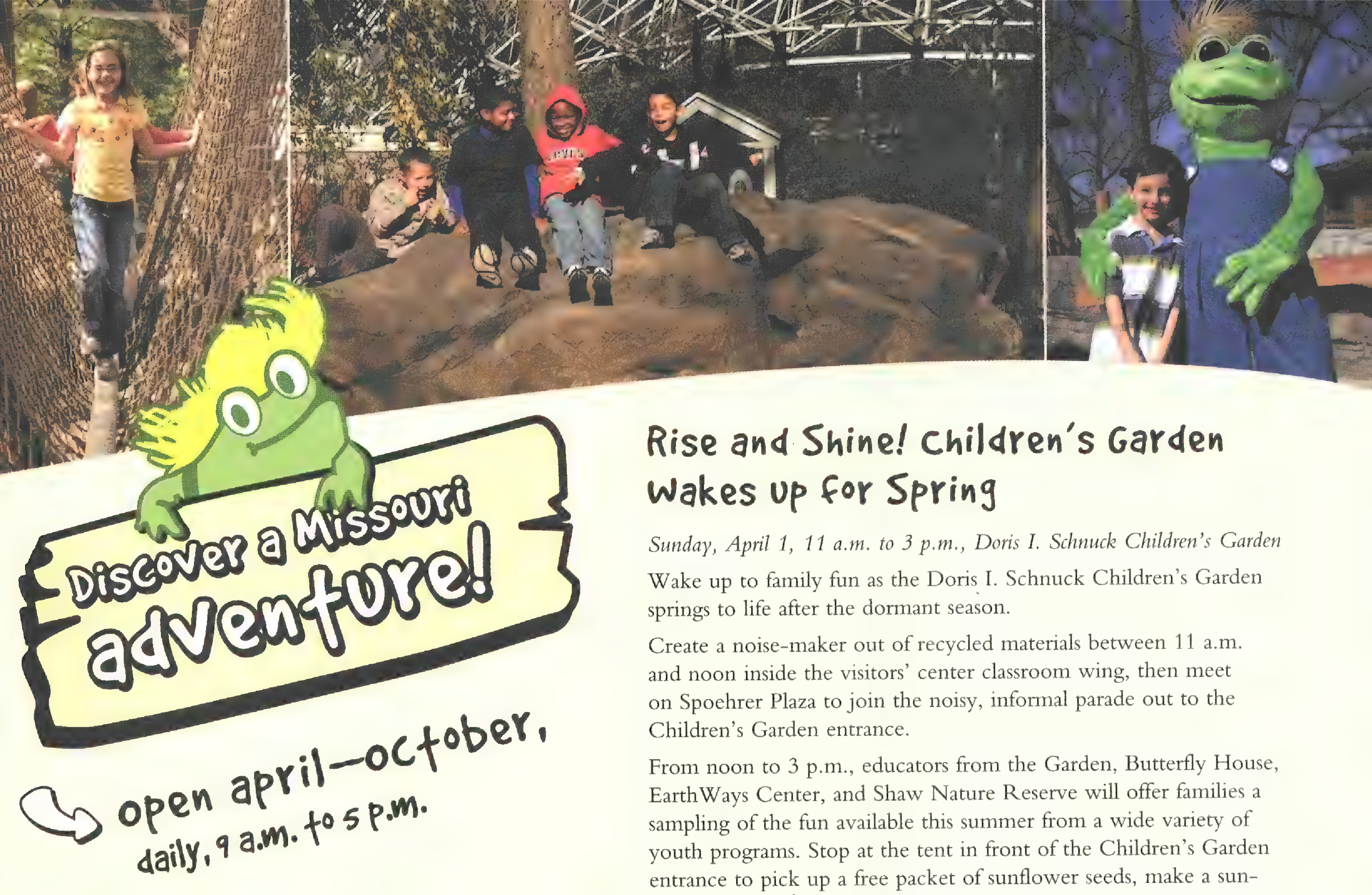
This summer, the Garden will be the place for discovering, playing, and creating in nature! Day camps at the Garden and Butterfly House explore the wonders of flowers and insects. For information on Camp EarthWays see page 15. And don't miss the new overnight adventures at the Shaw Nature Reserve. Space is limited and classes fill up quickly. Garden members enjoy discounts and early registration privileges until March 15. Call (314) 577-5140 or (314) 577-9506 for more information or to request a Summer Programs guide.

Oaks and Acorns

AGES 6–12
(with a grandparent)

Oaks and Acorns: Share the beauty of the Garden and the enjoyment of learning by making a botanical project with your grandchild. Classes are held from 10 a.m. to noon on May 12, June 8, and July 11, and range in price from $7 to $11 per child.

The above classes all take place on Garden grounds. Additional classes for children and families are available at the Butterfly House and Shaw Nature Reserve. Garden members receive a discount on all programs. Advance registration and payment is required; call (314) 577-9506 or visit www.mobot.org/education for more information or to register.



Fun in the Doris I. Schnuck Children's Garden: A Missouri Adventure. Dare to cross a rope bridge, explore different Missouri ecosystems, and don't miss your chance to get a hug from Finn the Frog!

Doris I. Schnuck Children's Garden: A Missouri Adventure

Hours: April through October, 9 a.m. to 5 p.m.
Admission: $3 per child, ages 2–12; adults are free

NEW! **Members' Days:** Garden members and their children receive free admission on Tuesdays!

"Hoppy" Birthday!
Give your child or grandchild an unforgettable birthday party at the Doris I. Schnuck Children's Garden designed especially for kids ages four to 10. For reservations and information, call (314) 577-9425 or visit www.mobot.org/finn.

Rise and Shine! Children's Garden Wakes up for Spring

Sunday, April 1, 11 a.m. to 3 p.m., Doris I. Schnuck Children's Garden

Wake up to family fun as the Doris I. Schnuck Children's Garden springs to life after the dormant season.

Create a noise-maker out of recycled materials between 11 a.m. and noon inside the visitors' center classroom wing, then meet on Spoehrer Plaza to join the noisy, informal parade out to the Children's Garden entrance.

From noon to 3 p.m., educators from the Garden, Butterfly House, EarthWays Center, and Shaw Nature Reserve will offer families a sampling of the fun available this summer from a wide variety of youth programs. Stop at the tent in front of the Children's Garden entrance to pick up a free packet of sunflower seeds, make a sun-catcher from natural materials, and learn about Camp MBG.

Inside the Children's Garden, Camp Bug-A-Loo instructors will show how bees communicate through the Bumblebee Boogie at the Pollination Garden. Parents with two- and three-year-olds can find out more about the Little Sprouts program by visiting the Town Hall, where kids can pot a plant to take home. Older children can uncover the secret behind "living lightly" on Earth in the Secret Garden. Near the Discovery Platform, kids can follow a scavenger hunt and make an origami frog souvenir.

New this year, several Interpretation Stations will enhance your Children's Garden visit. Have "Bushels of Fun" inside the general store, where kids can pretend to prepare foods made the pioneer way. Indulge in "Steamboat Stories" aboard *The Pearl*. Delve into an "Osage Experience": try your hand at an Osage stick game.

Mark Twain Saturdays
Saturdays in April, 11 a.m. to 3 p.m.
Throughout 2007, the Children's Garden will explore the life and legacy of Mark Twain. On Saturdays in April, listen as Mark Twain stories are brought to life, then join in related activities and crafts.

April 7 *TheAdventures of Tom Sawyer* | Take part in a special treasure hunt, and create a scrapbook.
April 14 *Adventuresof Huckleberry Finn* | Make a miniature raft.
April 21 *Lifeon the Mississippi* | Includes a rope-making activity and knot-tying contest.
April 28 *TheCelebrated Jumping Frog of Calaveras County* | Enter the frog jumping contests and make froggy crafts.

Gardening

Chef Lynn Heerman poses with a plate of hummus from Sassafras.

Hummus (serves 8–10)

by chef Lynn Heerman

4 garlic cloves
1 teaspoon salt
2 18-ounce cans chickpeas, drained
⅔ cup well-stirred tahini (sesame paste)
½ cup olive oil
1 tablespoon ground cumin
1 tablespoon paprika
¼ cup lemon juice

Combine all ingredients except for the lemon juice in a food processor and blend. When smooth, add the lemon juice. Serve with toasted pita bread.

Botany of a Spring Appetizer

Twice a year, the menu in Sassafras changes with the seasons, from spring/summer to fall/winter, and back. To mark the occasion, we present a recipe by chef Lynn Heerman along with a botanical explanation of the ingredients by Assistant Curator Dr. Wendy Applequist, the Garden specialist in medicinal plants.

Plant Facts

plant facts by Dr. Wendy Applequist, medicinal plant specialist

For millennia, GARLIC (*Allium sativum*) has been used to treat a wide variety of infections and conditions ranging from worms to heart disease. During World War I, British doctors requisitioned tons of garlic for treatment of wounds to prevent infection.

Most familiarly used in classic Middle Eastern recipes, CHICKPEAS (*Cicer arietinum*) may have been domesticated in what is now Turkey over 9,000 years ago. Also known as garbanzo beans, chickpeas are an exceptionally nutritious legume, high in fiber, calcium, iron, and folate.

Perhaps cultivated first in India, SESAME (*Sesamum indicum*) was soon spread to China and Africa. The seeds are especially high in calcium, zinc, iron, and copper, and contain valuable oil. The phrase "Open sesame!" derives from the ripe sesame pod, which bursts open when touched.

Nobody is sure where OLIVE (*Olea europaea*) was first domesticated, but by biblical times it was treasured from Egypt to Italy for its oil, which was used for food, medicine, ointment, lubrication, lamp fuel, and soap. Olive oil is high in monounsaturated fat, a "good" fat that may reduce the risk of several chronic diseases and contribute to the health benefits of the "Mediterranean diet."

Like several other strongly flavored spices, CUMIN (*Cuminum cyminum*) has high amounts of beneficial phenolic compounds that contribute to antioxidant, antibacterial, and antifungal activities.

PAPRIKA (*Capsicum annum*) is made from ground chili peppers, which are native to the New World. They were imported to Europe and became especially popular in Hungary, which produces at least eight kinds of paprika, ranging from sweet to red-hot. Some zoos add paprika to flamingos' food because the carotenoid pigments keep the birds' feathers pink.

Like many citrus fruits, LEMON (*Citrus limon*) is a hybrid that never existed in nature. The first definite reference to lemon is in a 10th-century Arabic farming treatise. Records from the medieval Jewish community in Cairo document the sale of bottles of sugared lemon juice—in other words, lemonade.

Ottoman Garden (top), 'Sorbet' and 'Helmar' just two of the "broken" multicolor tulips on display there this spring.

Bulbs, Glorious Bulbs

Every fall, the Garden's resident bulb expert, senior horticulturist Jason Delaney, and his coworkers and volunteers undertake an incredible mission: to out-do the previous year's bulb display. Last year, they planted over 90,000 spring-flower bulbs, set to "go off" this March and April. Look for new tulip varieties through the grounds, but especially in the new Ottoman Garden, dedicated last summer.

Ottoman Garden
A unique quarter-acre walled garden just east of the Linnean House, the Ottoman Garden is modeled on the luxurious "gardens of paradise," popular in what is now Turkey in the 16th–19th century. All plants in the Ottoman Garden were selected to represent accurately the kinds of plants that would have been grown in that region in that era.

Of particular note for this spring is the collection of historic hybrid tulips, one of the largest such public displays in the U.S. Specimens were acquired from the renowned collection of historic bulbs of the Hortus Bulborum in the Netherlands. "These are bulbs you will see nowhere else," says senior horticulturist Delaney. "They are rare in cultivation and rare in commerce."

The Bulb That Launched a Thousand Ships
The focus of the display is the true Rembrandt, or broken, tulip. These streaky, multicolored blooms attracted much attention and appreciation by the Ottomans. The same tulip's popularity eventually spread westward, inciting the Dutch tulipomania of the 17th century. It was not until the 1930s that this color breaking was identified as a virus and commercial cultivation ceased. Today, look-alike types have been created through extensive hybridization and are now available to the home gardener, but to see the original is a rare treat. Don't miss it this spring.

Bulbs aka Geophytes, A Botanical Primer

Gardeners refer to almost any plant with underground storage capacity as a "bulb." These plants are typically perennials, having a period of growth and flowering followed by dormancy when they die back to ground level. In botany, however, these so-called bulbs (or *geophytes*, literally "earth plant") represent many different kinds of plants and plant families, with different means of storage and growth habits. Here are just a few of the botanical categories:

True bulbs (tulips, daffodils, hyacinth, grape hyacinth, onions)
Modified foliar parts which contain a complete miniature plant: flower parts and a baby leaf at center, a "basal plate," which produces roots at the base, and a papery "tunic" which protects the bulb. Wrapped around the embryonic plant are fleshy "scales" (usually thickened leaves) where the food is stored.

Corms (crocus, gladiolus)
Stores food in modified fleshy stem, instead of scales. Has a basal plate and tunic.

Tubers (caladium, potato)
Stores food in modified fleshy stem, but has neither basal plate nor tunic. Sprouts from bud-like "eyes" on the surface.

Tuberous roots (dahlias, ranunculus, anemone)
Stores food in enlarged fleshy root tissue. Growth arises from buds at the top of the root mass.

Rhizomes (iris, canna, lilies-of-the-valley)
Yet another kind of modified stem as storage device, only these plants grow horizontally underground.

What to do in your garden now . . .

clip and save

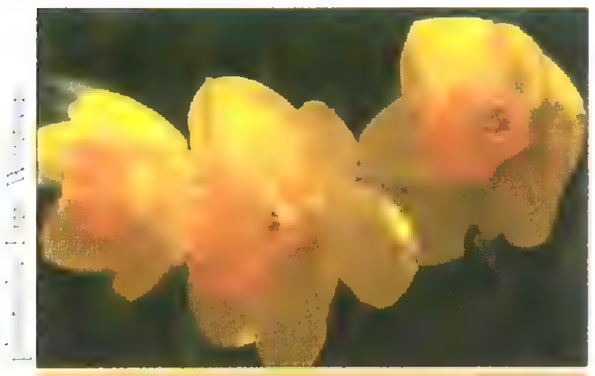


Photo by Jay Wilson

March

all month

- ❑ Fertilize vegetables while preparing the soil for planting.
- ❑ Clean up beds by removing all weeds and dead foliage.
- ❑ Dormant mail-order plants should be unwrapped immediately. Keep the roots from drying out, store in a cool protected spot, and plant as soon as conditions allow.
- ❑ Trees, shrubs, and perennials may be planted as soon as they become available at local nurseries.
- ❑ Gradually remove mulch from strawberries as the weather warms.
- ❑ Repot rootbound houseplants to containers 2 inches larger in diameter than their current pot. Check for insect activity; control as needed. Prune leggy plants.
- ❑ Mow lawns low to remove old growth before new begins.

week 1

- ❑ Delay planting vegetables if the soil is too wet. When a ball of soil crumbles easily after being squeezed together in your hand, it is dry enough to be safely worked.
- ❑ Asparagus and rhubarb roots should be planted as soon as the ground can be worked.
- ❑ Seeds of hardy annuals such as larkspur, bachelor's buttons, and California poppies should be directly sown in the garden now.
- ❑ Heavy pruning of trees should be complete before growth occurs.
- ❑ Prune grapes. Tie vines to the trellis before the buds swell to prevent injury and crop loss.

week 2

- ❑ Plant peas, lettuce, radishes, kohlrabi, mustard greens, collards, turnips, potatoes, spinach, and onions (seeds and sets) outdoors.
- ❑ Summer and fall blooming perennials should be divided.

week 3

- ❑ Plant beets, carrots, parsley, and parsnip seeds outdoors. Set out broccoli, cabbage, brussels sprouts, chinese cabbage, and cauliflower transplants into the garden.
- ❑ Apply sulfur to the soils around acid-loving plants such as azaleas, rhododendrons, hollies, and dogwoods. Apply a balanced fertilizer to perennial beds when new growth appears.
- ❑ Plant spring bedding plants outdoors now.
- ❑ Cut ornamental grasses to the ground as new growth begins.
- ❑ Apply dormant oil sprays to your fruits now. Choose a dry, warm weather day.
- ❑ Apply broadleaf herbicides now for control of cool-season weeds. These must not be applied to areas that will be seeded soon.

week 4

- ❑ Start seeds of tomatoes, peppers, and eggplants indoors.
- ❑ Gradually start to pull back mulch from rose bushes.
- ❑ Prune peaches and nectarines just before they bloom. Mulch bramble fruits for weed control.
- ❑ Thin spots and bare patches in the lawn can be overseeded now.

Photo by Erin Whitson

April

all month

- ❑ Start mowing cool season grasses.

week 1

- ❑ Start cucumber, cantaloupe, summer squash, and watermelon seeds indoors. Finish sowing seeds of all cool-season vegetables not yet planted outdoors.
- ❑ Plants started indoors should be hardened off before being transplanted.
- ❑ Asparagus and rhubarb harvests begin.
- ❑ Winter mulches should be removed from roses. Complete pruning promptly. Remove only dead wood from climbers at this time. Cultivate lightly, working in some compost or other organic matter.
- ❑ Shrubs and trees best planted or transplanted in spring, rather than fall include butterfly bush, dogwood, Rose of Sharon, Black gum (Nyssa), vitex, red bud, magnolia, tulip poplar, birch, ginkgo, hawthorn, and most oaks.
- ❑ Plant bareroot or potted fruits as soon as the soil can be worked. Remove tree wraps from fruit trees.
- ❑ Mount a rain gauge near the garden to track precipitation. Most gardens need about 1 inch of rain per week between April and September.

week 2

- ❑ Finish transplanting broccoli, brussels sprouts, cabbage, and cauliflower plants into the garden.
- ❑ Sow seeds of hardshell gourds indoors. Soak seeds overnight before planting.
- ❑ Thin out crowded seedlings from early plantings of cool-season crops such as beets, carrots, lettuce, onions, and radish.
- ❑ Examine shrubs for winter injury. Prune all dead and weakened wood.
- ❑ When crabapples are in bloom, hardy annuals may be transplanted outdoors.
- ❑ Fertilize established roses once new growth is 2 inches long.
- ❑ Do not prune boxwoods before April 15.
- ❑ Destroy or prune off webs of eastern tent caterpillars. Protect bees and other pollinating insects.
- ❑ Aerate turf if thatch is heavy or if soil is compacted. Topdress low spots and finish overseeding thin or bare patches. Apply crabgrass preventers before April 15. Do not apply to areas that will be seeded.

week 3

- ❑ Try an early sowing of warm-season crops such as green beans, summer squash, sweet corn, New Zealand spinach, and cucumbers. Flower stalks should be removed from rhubarb plants, if they develop.

week 4

- ❑ Begin planting lima beans, cucumbers, melons, okra, and watermelons. Begin setting out transplants of tomatoes, eggplants, peppers, and sweet potatoes.
- ❑ Easter lilies past blooming can be planted outdoors. Mulch well.
- ❑ Shear evergreen and deciduous hedges.
- ❑ Begin planting out summer bulbs such as caladiums, gladiolus, and acidanthera.
- ❑ Prune spring-flowering ornamentals after they finish blooming.

For additional information on plant care and gardening:

- *visit the Wm. T. Kemper Center for Home Gardening.*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org.*

Featured Plant of Merit

Aesculus pavia
Red Buckeye

Buckeye seeds are thought to bring good luck. The flaming-red 10-inch flowering panicles emerge with the foliage in spring to remind you of your good fortune growing this small 15-to-20 feet tall tree. This Missouri native grows well in sun to part shade with shiny palmate leaves and leathery seed pods in late summer.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

photo courtesy MBG Horticulture staff

Enroll today for classes and tours, crafts and cooking, and more!

Gear up for Gardening

Though rough winds do still shake, it's time to bundle up, dust off those gardening implements, and lay the groundwork for your 2007 garden. And where better to seek advice, inspiration, or learn new skills than the Garden?

Whether you are a beginning gardener or an advanced horticulturist, the Missouri Botanical Garden offers a variety of classes to grow your green thumb. Registration is now open for spring classes highlighting specialty gardens, plant care, landscaping, indoor gardening, and more.

Specialist? A new plant care class, For the Love of Lavender, provides the best advice for growing and using fragrant lavender well in our not-so-perfect climate.

Newbie? Learn Basic Gardening Techniques in a five-session interactive class that incorporates all the fundamentals of home gardening.

Crafter? Why not try the new gourd basket making class, or learn to make your own garden music with terra-cotta windchimes?

Chef? Cooking classes now available during the day, in addition to Saturdays and evenings.

Bon vivant? Know your porter from stout? In addition to wine tasting, the Garden now offers a new beer tasting class.

These and dozens more classes are featured in the spring 2007 catalog of "Classes and Tours for Adults and Families," which was mailed to all Garden members in February. Offered March through June, classes range from $25 to $60 for single-session classes and from $125 to $130 for multiple-session classes. Most sessions are held at the Garden's main campus, but other classes are available at Shaw Nature Reserve, Butterfly House, EarthWays Center, and two locations in Illinois.

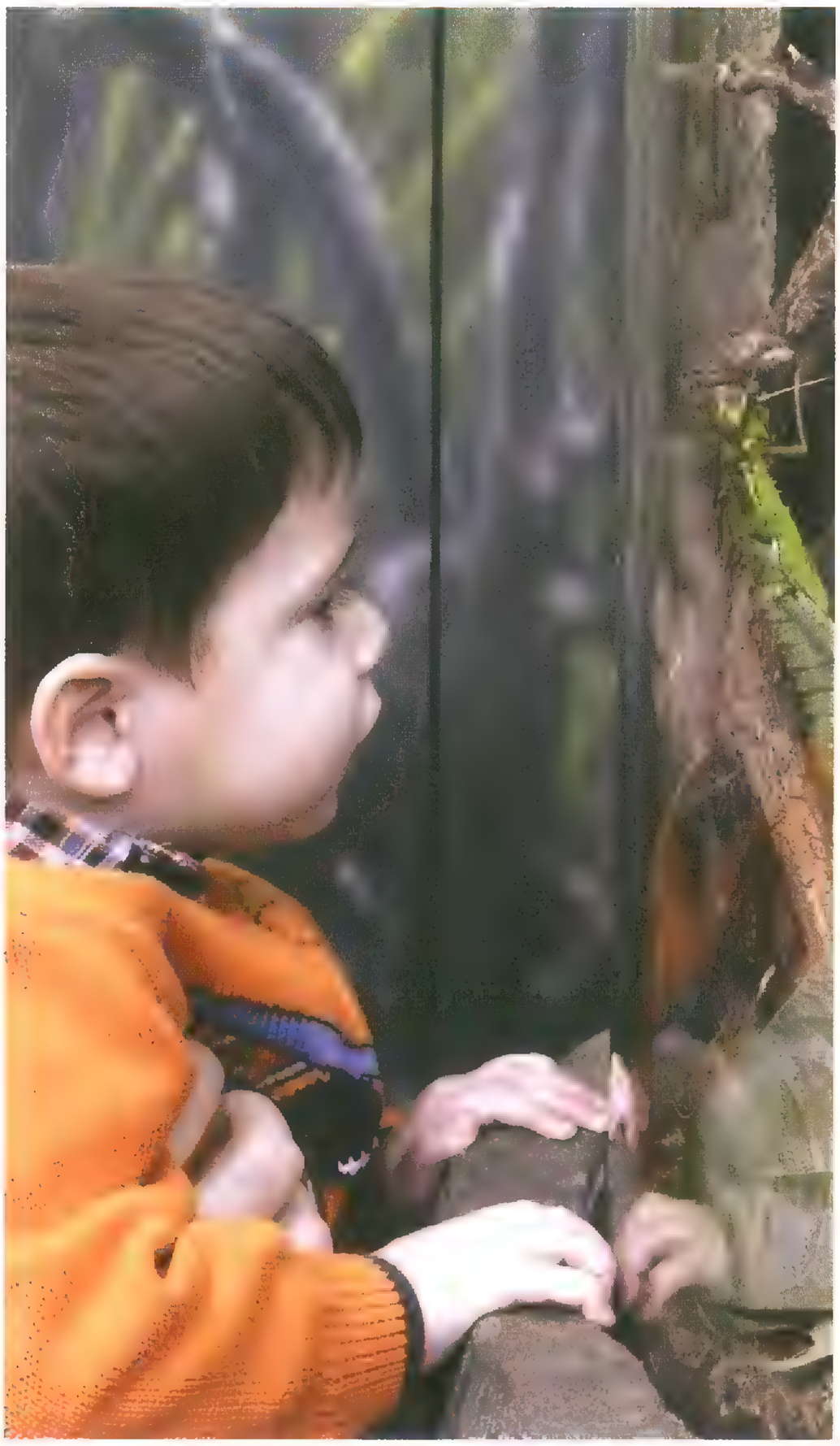
Classes fill up quickly, but members enjoy early enrollment and discounts of up to 20 percent. Register by completing the form in the catalog, or online at the Garden's horticulture website: www.gardeninghelp.org. Call (314) 577-9441 for more information.

Plants of Merit Are Ready for their Close-Up!

If you like to take photographs at the Garden, consider focusing on these exceptional plants! This March through August, the Missouri Botanical Garden Plants of Merit program holds the first-ever Plants of Merit photography contest.

Photographers of any age, both amateur and professional, are eligible to enter at no charge. Contestants have until 5 p.m. on August 31, 2007 to submit high-resolution digital images on CD along with one 8x10 inch color print of each image. Multiple images may be submitted, but all photos must be of current or emeritus Plants of Merit and may not include people. E-mailed files will not be accepted. Submissions will not be returned, and all images become the property of the Missouri Botanical Garden.

Winning photographs will be reproduced as a set of note cards and exhibited at the Kemper Center for Home Gardening in late 2007. Winners will be selected by a panel of judges, which includes Garden staff and professional photographers. No purchase is necessary to enter. Void where prohibited by law. Terms of the contest are governed by official rules; see official contest rules online at www.plantsofmerit.org.



Small Wonders at the Butterfly House.

Butterfly House

15193 Olive Blvd., Chesterfield, MO 63017
(636) 530-0076 • www.butterflyhouse.org

Small Wonders

On January 20, the Sophia M. Sachs Butterfly House opened the largest new animal exhibit since 1998. Small Wonders features 13 living displays containing hundreds of insects and other arthropods in natural settings.

"We created this exhibit to show not only the amazing adaptations among insects and other arthropods," says Joe Norton, director of the Butterfly House, "but also the incredible habitat diversity in which they are found."

Displays of desert, grassland, and rainforest habitats, among others, afford opportunities to learn about the significant role each species plays in nature. Some of the interesting creatures visitors can see include:

Yellow buffalo beetle (*Pachnoda flaviventris*). These brightly-striped arthropods are part of nature's clean-up crew, consuming, and thus removing, dead wood. They wander Central Africa's plains and grasslands, often grouping in large numbers during rainy seasons.

Sonoran giant centipede (*Scolopendra heros*). A fierce hunter that becomes aggressive if touched, these centipedes are typically nocturnal, spending their days hiding in cool, damp burrows. Their long fangs are actually modified forelegs! They prey on creatures as large as mice in the harsh desert ecosystem.

Malaysian Jungle Nymphs (*Heteropteryx dilatata*) are among the largest stick insects with females often reaching 7 inches in length and weighing 3–4 ounces. Females drop their eggs to the forest floor and the young may take a year to develop to adulthood.

Darkling beetles (*Eleodes striatus*), common to the southwest U.S., possess an effective defense mechanism: the capability to squirt a foul-smelling liquid chemical from their abdomens. When alarmed, these beetles will run with their bellies kept at a 45-degree angle from the ground, prepared to blast any enemies. Visitors can get up-close and personal to one hundred of these critters protected by the exhibit's glass enclosures.

Buggin' Out for Earth Day

Sunday, April 22

Kids of all ages will enjoy Earth-friendly crafts involving insects and recycling. Included with admission to the Butterfly House.

Save-the-Date: Mother's Day Brunch at the Butterfly House

Sunday, May 13, seatings at 11 a.m. and 1 p.m.

Reservations and prepayment by credit card are required. Call (636) 733-2339 after April 15 to book.

Great orange tip
Hebomoia glaucippe

Range: Southeast Asia
Our source: Malaysia, Thailand
Host plants: Spider flower (*Cleome spinosa*) and Temple Plant (*Crateva religiosa*), among others.

The great orange tip features a striking white coloration and lives in a forest-edge habitat. With a wingspan of 3–4 inches, it is one of the fastest flying butterflies.

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

photo by Barb Troutman

'Ice Follies' daffodils at the Shaw Nature Reserve.

Fields of Gold

The Pinetum, located between the Visitor Center and the Whitmire Wildflower Garden, is a 50-acre collection of conifers planted shortly after the establishment of the Shaw Nature Reserve in 1925 and centered around a four-acre lake. The rolling meadows of this park-like area are covered in thousands of daffodils in early spring. This year, the Reserve will feature a temporary path around the lake with informational signage about the plant family and its many varieties.

Daffodils got their start at the Reserve through the efforts of John Howe, an amateur propagator of daffodils who lived nearby and gave the Reserve its first basket of bulbs. In the 1930s, the Garden's Curator of Useful Plants, Dr. Edgar Anderson, initiated a program of evaluating narcissus varieties for dependability in the region. Today these bulbs, having naturalized and been supplemented over the last nearly 80 years, number in the hundreds of thousands.

"From early March to the first week of May the narcissus collections at the [Shaw Nature Reserve] provide a continuous mass display. It is a two-month pageant which begins with the brilliant yellow trumpets of 'February Gold' and ends with the clear white blooms of the old-fashioned variety 'Recurvus.' [...] it always reaches its peak some time in April." March 1942 Bulletin

Birdscaping with Native Plants at SNR

Thursday, April 12, 6 to 8 pm.
Want a greater variety of birds? And what if you could spend less time mowing and watering in the process? Mariette Nowak, author of the upcoming book *Birdscaping in the Midwest* provides the knowledge you need to make your backyard flora ideally indigenous. $5 ($3 for Garden members).

Save the Date: Spring Wildflower Sale

Saturday, May 12, 9 a.m. to 4 p.m.
Garden members' preview sale:
Friday, May 11, 4 to 7:30 p.m.
This Mother's Day weekend, select from a huge variety of native wildflowers, ferns, trees, and shrubs for home landscaping at the annual Shaw Nature Reserve Spring Wildflower Sale.

photo by Mary Nash

Camp EarthWays builds young green builders.

EarthWays Center

3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

Camp EarthWays: Young Green Builders

Monday through Friday, June 25–29, 9 a.m. to 3 p.m., grades 5–8
Have you ever imagined designing your own home in harmony with nature? Now, kids entering grades 5-8 can fulfill that dream this summer at Camp EarthWays! During this week-long day camp at the Garden's EarthWays Center in midtown St. Louis, kids will explore sustainable home design and learn about today's green building practices, while designing their own fantasy "green home." Campers will visit urban farms and off-grid abodes, navigating the city by public transportation. Hands-on investigations will uncover the basics of renewable energy systems, water conservation, sustainable building materials, and more. At the end of the week, campers will present and display their unique green home designs at the EarthWays Center. For more information or to register today, call (314) 577-0220.

Celebrate Earth Day, Visit EarthWays!

The Garden celebrates Earth Day on Saturday, April 21, with a variety of informational booths. The St. Louis Earth Day Festival takes place Sunday, April 22, in Forest Park. Stop by the EarthWays exhibit at either location or make a commitment to tour our recycled Victorian-era city home this month. See Calendar section for details.

Eye on: HORTICULTURE

Opened to the public in 1859, the Missouri Botanical Garden is today the oldest botanical garden in continuous operation in the U.S. and a National Historic Landmark. In his 1889 will and testament, founder Henry Shaw established the Garden as a Missouri charitable trust operated by a board of trustees to be maintained "for all time" for the public benefit. Since its inception, the Garden has been dedicated to a three-fold purpose: Education, Horticulture, and Research. This is the second in a series of overview articles highlighting each of these areas. The first article, on Research & Conservation, appeared in the last issue.

Last year, 1.2 million visitors came to the Missouri Botanical Garden and over 41,000 enjoyed the experience so much that they joined or renewed as members. If you are one of those fans, you might be wondering what goes on behind the scenes at the Garden. How is everything kept so beautiful? Where do the plants come from? How does Garden staff know which plants work best? Who makes the informative signs you see?

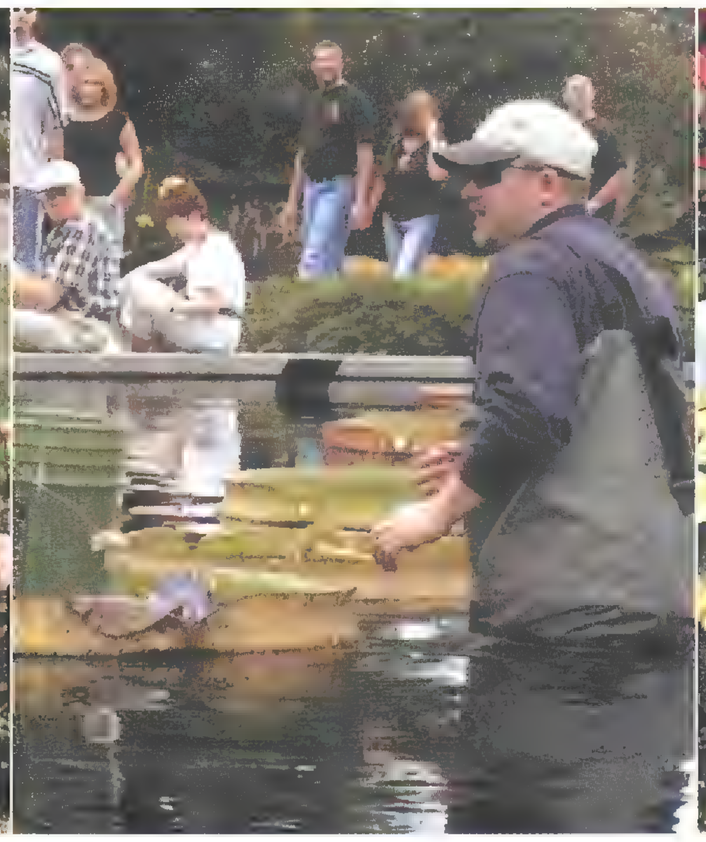
The answers to these questions lie within the activities of the Division of Horticulture. **Horticulture** comes from the Latin for garden-growing and is defined as "the science and art of growing fruits, vegetables, flowers, or ornamental plants." The division employs 60 staff, 479 volunteers, and 6 interns under the leadership of Vice President James Cocos.

"The beautiful gardens are the result of a very dedicated and passionate team of professionals, who take immense pride in what they do," says Cocos. "The public may not always be aware of the enormous undertaking required to make this happen, but that's as it should be. We know they appreciate our work from their gracious comments and frequent visits."

How is everything kept so beautiful?
Let's start with perhaps the most visible members of the Horticulture team, the **Outdoor** staff. This team performs everything that you might do in your own backyard, only at the Garden, that "backyard" is 79 acres. With 35 outdoor staffers, that's about 2.6 acres per person to weed, water, mulch, trim, plant, rake, prune, and plot. As the seasons change, so do the duties performed by the Outdoor Gardens staff.

- Spring begins the cycle of planting flower beds—many are replanted as many as 2–3 times per year.
- During summer, our aquatic specialists and other staff don waders to empty and clean out the lily pools. The lawns are cut—over 5,600 miles of mowing per year.
- As fall arrives, 90,000 bulbs are planted—by hand!—for next spring's display. With approximately 6,000 trees in the Garden, leaf pick-up becomes a priority for a few months each year. Fall and winter provide the Garden's arborists with clear views of the pruning needed to keep the Garden's trees and shrubs in top condition.
- In winter, the Outdoor Gardens crew tackles the often monumental task of snow removal to provide a safe winter setting for our visitors. The Garden is open every day except Christmas and is spectacular on snowy days. If there is heavy snow or ice overnight, the outdoor crew arrives at 5 a.m. to clear paths to our buildings and parking lots before other employees arrive. Then they clear pathways through the interior of the Garden. At times, this process may take the whole day.

And of course, there are also indoor gardens—the **Conservatories**. The Climatron, Temperate House, and the Linnean House are run by a team of five staff and dozens of volunteers.



Where do the plants come from?
The Garden's **Greenhouse** team of eight employees accommodates plant propagation, plant production for indoor and outdoor use, research plants, and special collections, such as orchids, cacti and succulents, tropical plants, and aquatics.

The greenhouse complex includes an entire acre under glass. A series of 18 greenhouses is connected to a large central hallway called the "head house." This is where staff and volunteers busily propagate new plants from seeds or cuttings, and pot and transplant other plants at workstations designed specifically for these tasks.

Each greenhouse has routine maintenance tasks, which include watering, fertilizing, pest control, repotting, pruning, and even weeding the gravel floors in some greenhouses. Temperatures, humidity levels, and light levels vary greatly from greenhouse to greenhouse. Even the soil and fertilizer used may be very different.

- Three of the greenhouses are devoted solely to the Garden's extensive orchid collection, which is seen on a rotating basis in the annual Orchid Show, on display now through March 11.
- Working with the Research Division, the Greenhouse staff cares for a wide variety of plants collected by researchers in three greenhouses.
- The desert greenhouse is the temporary home of many unusual and rare varieties of cacti and succulents from the former Desert House. This wonderful collection of cacti and succulents cannot be on public display until the Garden receives a generous donation to fund the construction of a new Desert House similar to the Temperate House.
- In the stock house, cuttings are taken for spring and summer bedding plants used on the grounds. All stock plants are sold at the Spring Plant Sale (Thursday, May 10 this year) and replaced with cuttings.
- Water lilies and other aquatic plants grow in the aquatic greenhouse.
- Eight production greenhouses are dedicated to spring and summer bedding plants and flowering Holiday Show plants, including more than 2,000 poinsettias—the first of which arrives in May as a rooted cutting!

The Missouri Botanical Garden's annual orchid show, and later the Gardenland Express holiday flower and train show, are produced by the **Floral Display** team of two staff and multiple volunteers who work all year-round to prepare for these immense productions.

How does Garden staff know which plants work best?
The **Kemper Center for Home Gardening** is the largest and most comprehensive gardening information center of its kind in the nation, providing recreation, education, and resources for Midwestern home gardeners. Eight full-time staff oversee operations of the Center, exhibits, services, and programs, including Master Gardeners, Plastic Pot Recycling, Adult Education, and the Plant Doctor and Horticulture Answer Service.

Outside the Center, the 8-acre Kemper Demonstration Gardens comprise 23 home demonstration gardens, each with a different theme, scaled to the size of residential yards in St. Louis. The experimental garden contains test plots for flowers, vegetables, and fruit, where plants are rigorously tested and horticultural techniques are displayed and evaluated. The best of the best may be awarded Plants of Merit status for the St. Louis region.

Who makes the informative signs you see?
The three staffers of the **Plant Records** team maintain a computer database of all the plants that are, or have ever been, in the Garden. They are also responsible for plant labeling, interpretation, and computerized mapping.

photos above by [illegible]
Ryan Rumberger, Emily Snider, Erin Whitson, and Kevin Wolt

"We were in the middle of nowhere in Ivindo, one of Gabon's 13 national parks. It's a day's walk to the nearest road, which is then a two-hour drive away from the nearest train station. We crossed a stream on our way across Mont Kinguié. When we returned, a heavy rain had swollen the stream to the size of a large river."
– Miguel Leal, botanist and photographer. His field assistants are pictured.

From the field:

Gabon and Central Africa

"Our work is to gather information about the biodiversity of the parks in Gabon, so we measure the species richness on transects [cross-country walks] and collect anything which is flowering or fruiting," explains the Garden's botanist-in-residence in Gabon, Miguel Leal. "Often we are the first ones in the area."

On the particular trip pictured above, the expedition found a new species of a small family of African shrubs: *Baphia megaphylla*. They also found, on a cliff, a small begonia, which had so far never been found in the interior of the country. In an area roughly the size of Colorado, Gabon is incredibly biodiverse—the richest country in the region—but out of thousands of plant species, only 5,000 are known.

Missouri Botanical Garden researchers have been studying the region for over 20 years, helping to provide valuable data on plant species in order to help inform conservation priorities. The Garden now has two full-time personnel who live and work in Gabon—Miguel Leal and Gretchen Walters—as well as the newest addition to the team, Tariq Stevart, an orchid specialist based at the National Botanical Garden of Belgium. (The mountainous parts of Central Africa are well-known for orchids and had previously been understudied.)

The team has worked hard to "build capacity," nongovernmental-agency-speak for the process of building up a local knowledge base of trained, local professionals. In June of 2006, after two years of supervision, the six local field botanists of the Gabon office completed their first independent operations, including missions to three national parks. These Garden-trained *parataxonomists*, or informally trained plant specialists, also began independently working in Pygmy villages of Waka to record traditional knowledge about medicinal plants.

Later last summer, the new herbarium in the capital Libreville was dedicated. It now provides office space for Garden researchers. The Missouri Botanical Garden is collaborating with the National Herbarium of the Netherlands to establish two internships for Gabonese students to study plant systematics and to revive the Flora of Gabon project. In adjacent Equatorial Guinea, the Missouri Botanical Garden is collaborating with Conservation International and others to create a national plant database, which will help support national flora work and create new protected areas.

"Next week we are going to the highest peak in Monts de Cristal where nobody has been before, despite 20 years of botanical exploration in the area," Leal says. "In our next phase, we will focus on creating biodiversity sanctuaries to protect a minimum of five percent of the Gabonese forest."

This work will be funded by CARPE, or Central African Regional Program for the Environment, an initiative of the United States Agency for International Development; in partnership with the Wildlife Conservation Society and Conservation International; Beneficia Foundation; Chris Davidson and Sharon Christoph; and the National Geographic Society.

Garden botanist Gretchen Walters studies the Bateke Plateaux, a grassland where local people use fire to renew the plantings and as a means of edible grasshopper collection. "One of the first questions I am asked when I start working in a village is 'What do you eat?' They want to know if I eat like them, that is, do I eat insects. If that is what's for dinner, sure I do! This simple act breaks down barriers in an instant…and they actually taste good, too."

Standing with Gretchen from left: villager Apauli and MBG staffers Prince Bissiemou and Etienne Mounoumoulossi.

peonies, Jim Whitson

Tributes *November/December 2006*

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-9500. You can also make a tribute gift online at our website, www.mobot.org.

In honor of

Dr. and Mrs. Jorge M. Alegre
Mr. and Mrs. Phillip Schreiber

Patricia R. Arnold
Ellen Dubinsky

Mrs. Elizabeth Bakewell
Ms. Ann Bakewell and Mr. Gustav Kocsis

Ms. Ellanie Balber
Mr. and Mrs. Phillip Schreiber

Marty and Mary Barnett
Doug and Lori Rankin

Mrs. Althea Barnhart
Mr. and Mrs. Thomas R. Ainsworth
Pastor and Mrs. Philip H. Barnhart
Mr. Dean W. Dyvig
Ms. Jean M. Folson

Barry Family
Mr. Justin Carr

Dr. and Mrs. Arthur E. Baue
Mr. and Mrs. Jerry Phelan

Mrs. Sarah Beaman-Jones
Mr. Zachary Metz

Mrs. Carol C. Bitting
Mrs. Audrey W. Otto

Susan and Terry Block
Mrs. Carolyn B. Pratt

Mr. and Mrs. Stephen Boyd
Mr. and Mrs. John F. McDonnell

Mr. and Mrs. Harold A. Brinner
Dr. Kristin Brinner

Mrs. Ralph Brouwer
Mr. and Mrs. Daniel L. Reus

Ms. Margaret B. Cady
Mr. and Mrs. Douglas Dowd
Mr. and Mrs. Hugh Scott III

Ms. Teresa Callahan
Mrs. Wanda K. Oldani

Mrs. Katherine P. Chambers
Mr. and Mrs. Ralph Miner, Jr.

Mrs. Jean Crowder
Mr. and Mrs. Paul A. Lagomarcino
Ms. Su-Ellen Viscuso-Serkes

Mr. and Mrs. Gilbert E. Day
Mr. and Mrs. Rudolf A. Bueken

Mr. and Mrs. John M. Drescher, Jr.
Mr. and Mrs. Jerome M. Rubenstein

Mr. Jim Drury
Mr. and Mrs. Richard Fine

Ellen and Henry Dubinsky
Mr. and Mrs. Robert W. Meyers

Mr. John P. Dubinsky
Mr. and Mrs. Burton Follman

Jan and Terry Dunaway
Their Grandchildren

Dan and Sue Edwards
Mr. and Mrs. Don Shoptaugh

Mr. and Mrs. Elmer Esrock
Mr. and Mrs. Harvey Shapiro

Mrs. Janet O. Fales
Mrs. Jeanne Peppel

Mr. Billy Firestone
Mrs. Dorothy R. Moog

Dr. and Mrs. G. David Forney
Mr. and Mrs. John F. McDonnell

Mr. and Mrs. Jerry L. Fritz
Ms. Connie Huck

Mr. and Mrs. Virgil L. Fuchs
Mrs. Shirley Stafford

Mr. and Mrs. Ramon D. Gass
Mr. and Mrs. John F. Seitz

Mr. Daniel L. Gravens
Mr. and Mrs. Thomas J. Cini

Mr. and Mrs. Frank J. Guyol, Jr.
Miss Lucie Garnett

Mrs. Renate M. Hawkinberry
Mr. and Mrs. Charles A. Payne, Jr.

Dr. and Mrs. Gregory L. Hempen
Ms. Lynn Andrews

Mr. H. James Hoeferlin
Mr. and Mrs. Derek Hoeferlin

Mrs. Maureen Hoock
Mrs. Patricia Sheehan

Mrs. Ronald E. Jones
Mr. Phil Kechele

Mr. and Mrs. Lionel Kaiser
Mr. and Mrs. Karl R. Liberman

Mrs. Ann Kander
Mrs. Robert L. Rosenheim

Mr. Keith Keathley
Mr. and Mrs. Ken W. Hammer

Ms. Caroline Kelsey
Mr. and Mrs. Karl R. Barnickol

Dr. Robin C. Kennedy
Anonymous

Mrs. Marianne W. Klein
Ms. Ellen F. Harris and Mr. Richard A. Klein

Ms. Linda Meckfessel Koenig
Mr. and Mrs. Jerry Stoliar

Ms. Susan J. Laduzinsky
Ms. Amy Eilers

Mr. and Mrs. Steve Latz
Mr. and Mrs. Phillip Schreiber

Dr. Mark Ludwig
Mr. and Mrs. Bo Axelrod

Mr. Peter Manion
Mrs. Kathryn Nix

Kay and Ed Mantia
Mr. and Mrs. Robert Emert

Mr. and Mrs. James S. McDonnell III
Mr. and Mrs. Walter G. Stern

Mrs. Priscilla B. McDonnell
Mr. and Mrs. John F. McDonnell

Dr. Ronald L. Mera
Mr. and Mrs. Jim Doehring

Mr. and Mrs. Jim Metziner
Mr. and Mrs. David Henry

Mr. Ken A. Miesner
Mrs. Edward D. Weakley

Missouri Botanical Garden Staff
Ms. Melodie Wynne

Tish and Mike Murphy
Dr. and Mrs. George Johnson

Dr. and Mrs. F. Thomas Ott
Mr. and Mrs. Charles J. Cook

Mrs. Audrey W. Otto
Mr. and Mrs. Mahlon B. Wallace III

Mr. Roy Pfautch
Mr. and Mrs. Van-Lear Black III
Mrs. Ann Liberman

Dr. Peter H. Raven
Ann and Clayton Wilhite

Drs. Peter and Patricia Raven
The Garden Conservancy

Ms. Jeri Roedel
Mr. and Mrs. Rodney A. Stecher

Mrs. Fay Roth
Mrs. Virginia R. Clark

Susie Littman Schulte
Dr. Kate Kreusser

Dr. Martin W. Schwarze
Mrs. Jean Edmonds

Mrs. Barbara Smith
Mr. and Mrs. Herbert M. Talcoff

Dr. Michael A. Smith and Staff
Mrs. Carolyn M. Heege

Mr. Donald Soffer
Mr. and Mrs. Merlin E. Lickhalter

Mrs. Edith Jenkin Spink
Deborah Taylor Sweeney

Mr. Van Spurgeon
Ms. Jackie Juras

Mr. and Mrs. Walter G. Stern
Mr. and Mrs. James S. McDonnell III
Mr. and Mrs. Harold M. Stuhl, Sr.

Mrs. Ruth Stone
Ms. Jacqueline C. Gable

Mr. and Mrs. Arthur Strathman, Jr.
Mrs. Hugh C. Webster

Mr. and Mrs. Harold M. Stuhl, Sr.
Mr. and Mrs. Walter G. Stern

Ms. Linda Tao
CID friends

Mr. Stephen Toth
Ms. Laura Toth

Elmer and Evelyn Vogelsang
Ms. Sharon Vogelsang and Mrs. Evelyn Vogelsang

Mr. and Mrs. John K. Wallace, Jr.
Mrs. Audrey W. Otto

Dr. Frank Wasserman
Mr. and Mrs. Rick Halpern

Mr. C. Robert Wells
Peg and Blanton Whitmire

Mr. and Mrs. Blanton Whitmire
Mr. and Mrs. Richard B. Whitmire

Mrs. Ann Duvall Wyatt
Mrs. Barbara J. Duvall

tributes continued...

In memory of

Mr. George Adler
Ms. Jackie Juras
Missouri Botanical Garden Docents

Mr. Fletcher Anderson
Mr. and Mrs. Wayne J. Bennetsen

Mr. Tallis Argos
Mr. and Mrs. Gus P. Manoff

Mrs. Tammy Atkins
Mr. and Mrs. James A. Finch III

Dr. Gustav Aufricht
Aufricht Foundation

Mrs. Amy Jane Ax
Mr. and Mrs. Jack Litzsinger

Mr. Wayne Babler
Mr. and Mrs. Peter B. Krombach

Mrs. Helen Biesenkamp
Ms. Roxane B. Holtzman

Mrs. Virginia Bilhorn
Mr. Kyle Bilhorn
Ms. Kate Remick
Ms. Mary E. Serbi

Josephine and Frank Bowolak
Mr. Thomas Chokreff and Ms. Gaila R. Cook

Mrs. Joanne Breckenridge
Mrs. Patricia Chuffo

Mrs. Joyce Brenner
Mrs. Beatrice M. Davis

Dave and Madelyn Burkholder
Sharon Burkholder Jacobs

Mr. Merle E. Busch
Mr. and Mrs. Stephen C. Smith
Mr. and Mrs. Patrick R. Wilson

Dr. Grace Sunn Bush
Juhan and Sarah Bush

Mrs. Almira Bussman
Mrs. Marian R. Dean

Mr. and Mrs. Walter Cammarata
Mr. and Mrs. Wally Cammarata

Mr. and Mrs. Joseph A. Casey, Sr.
Dr. Janice E. Casey

Rosalie Christensen
Ms. Mary B. Elbert

Mr. Daniel Pepper Clark, Jr.
Mr. and Mrs. Patrick W. Clark

Mr. Bennet Commer
Mrs. Anna Lee Brown

Mrs. Phoebe A. Copley
Mr. and Mrs. Vincent W. Bitzer

Mrs. Lorraine Corey
Ms. Jean Spezia

Mrs. Jane Metcalfe Culver
Mrs. William Barnes III
Mr. Christopher Borunda
Mr. and Mrs. H. Pharr Brightman
Mr. and Mrs. John R. Capps
Mrs. George W. Clements
Mr. and Mrs. Nicholas B. Clifford
Mr. and Mrs. Leo P. Cremins, Jr.
Mrs. Donald Danforth, Jr.
Havens Contracting, Inc.
Mr. and Mrs. Richard C. Holton
Mr. and Mrs. Robert E. Kresko
Mr. and Mrs. Clinton W. Lane, Jr.
Mr. and Mrs. John K. Lilly
Mr. and Mrs. Eugene J. Mackey III
Mrs. Jane Shapleigh Mackey
Mrs. Priscilla B. McDonnell
Mr. and Mrs. John C. McPheeters
Mr. and Mrs. William R. Orthwein, Jr.
Mrs. Audrey W. Otto
Mr. and Mrs. Raymond W. Peters II
Mr. and Mrs. William J. Phelan
Mr. and Mrs. Charles P. Reav
Ms. Abigail Rohman
Mr. and Mrs. John W. Rowe
Warren and Jane Shapleigh
Mrs. Frank Sheldon
Mr. and Mrs. H. Parker Smith
Ms. Sarah Spiewak
Mrs. Donald H. Streett
Mr. and Mrs. Andrew C. Taylor
Ms. Louise J. Taylor
Ms. Pamela Taylor
Mrs. Daniel Upthegrove
Mr. Todd Whiting
Mr. and Mrs. Robert A. Wood

Mr. Samuel C. Davis, Jr.
Mr. William B. Wilson

Ms. Joanne Gans Dyvig
Ms. Mary L. Boeger and Mr. Marvin L. Cummins

Mrs. Kanza T. Easterly
Ms. Myrna R. Smith

Mrs. Sylvia Emerson
Ms. Nancy D. Linn

Mr. Robert 'Eric' Erickson
Prof. and Mrs. James M. Haas
Ms. Jackie Juras
Mr. and Mrs. Ernest Schusky

Mr. Charles Ernst
David, Rita, and Natalie Ernst
Mrs. Marlene Ernst
Mike, Kim, and Alex Ernst

Dr. Jackson Eto and Mrs. Jean Eto
Ms. Viola McKinney

Mrs. Audree B. Ewald
Mr. and Mrs. Patrick M. Donelan

Mr. and Mrs. Frank J. Ewers, Jr.
Ms. Jean Martin

Mr. John Bernard Fitzgerald
Mr. and Mrs. William J. Delabar
Mr. and Mrs. Kevin Eckelkamp
Mr. and Mrs. Joseph J. Fitzsimmons
Mr. and Mrs. Steve Foskin
Mrs. Mary Lovinguth
Ms. Joan K. O'Brien
Ms. Cathy Stecher

Ms. Cindy Flickinger
Ms. Christina Carlson

Ms. Julia C. Futterman
Mrs. Shantel Ferdman

Mr. David A. Gee
Mr. and Mrs. Neil M. Finbloom
Mr. and Mrs. Terry G. Flieg
Mr. and Mrs. Carl L. Hermann

Mr. Franklin C. Gilbert
Ms. Alice L. Cochran
Mr. and Mrs. Gregory T. Dell
Mr. and Mrs. William Dixon
Mr. and Mrs. John R. Gannett
Ms. Elizabeth M. Gilbert
Mr. John P. McCammon, Jr.
Mrs. Sheila S. Moseley-Perry
Mr. and Mrs. G. Douglas Nelson
Mr. and Mrs. Harvey Oberman
Mr. and Mrs. Harrison W. Parsh
Mr. Myrt A. Rollins

Ms. Marie L. Girardier
Miss Marie T. Bergmann and Miss Frances Bergmann
Ms. Mary Brucker and Ms. Joan Brucker
Mr. and Mrs. Dale A. Bruns
Ms. Mary Lou Mayer and Mr. James B. Venker
Ms. Bonnie Mayville
Mr. and Mrs. Glen A. Suntrup

Mr. Richard Glass
Toni Armstrong and Richard Spener
Rebecca Brandau
Cathy Devine
Ann Eggebrecht
Judy Eilken and George Behrens
Marilyn and John Harlan
Anne and Bob Horton
Jim Nyberg
Ed Schmidt
Darlene and Jerry Sugerman
Scott Woodbury
Phyllis and Jim Young

Mrs. Jean Goding
Mr. and Mrs. Ralph Loewenstein
Mr. and Mrs. George E. Stein

Mr. Martin J. Golden
Mrs. Betty J. Argust

Mrs. Georgia Gravens
Mr. and Mrs. Thomas J. Cini
Ms. Becky Brown and Mr. John A. McHugh

Mrs. Ida Grosenheider
Ms. Nathanne Gitt and Mr. Richard Senturia

Mr. George B. Hagee
Mr. Clark M. Driemeyer

Mrs. Violet Hargas
Mr. and Mrs. Raymond H. Schaper

Mr. Edward Lewis Hausner, Sr.
Miss Alice Hausner

Mr. John Bunn Henkle
Mrs. Elaine P. Henkle

Sophia Luz Hinkley
Ms. Jill Haynes

Mr. Gary P. Holke
Mrs. Sandra M. Christophel

Mrs. Margot Holsen
Rowena Clarke Garden Club
Blanton and Peg Whitmire

Mrs. Bonnita J. Hook
Ms. Marie Bone
Joan and Kim Stull

Mrs. LaRue Hough
Friends of Jeanne H. Mulligan

Mr. William Ibur
Mrs. Suzanne Pass

Mrs. Betty Jackson
Mrs. Judy Glasscock

Mr. Sylvester Jenkins
Mr. and Mrs. Donald R. Hemmer

Mr. Eugene Kabak
Mr. and Mrs. Stephen C. Smith

Mr. Roger M. Katz
Mr. and Mrs. William Stern

Mr. Steve Kish
Mrs. Frances Kish

Mrs. Mina Klein
Mr. and Mrs. Paul P. Weil

Mrs. Victoria H. Knoerle
Mr. and Mrs. Timothy Runnalls

Mr. Milan Kozak
Ms. Victoria Kozak Robinson

Ms. Amy M. Kramer
Ms. Amy Bolandis
Mr. Scot Brown
Ms. Elizabeth Chwirut
Ms. Michelle L. Clardy
Ms. Rebecca Endsley
Ms. Megan R. Flaskamper
S. Habbe
Mr. and Mrs. William R. Harrer
Ms. Rhonda Jarvis
Mrs. Kathleen M. Kalert
Mr. Charles Kwak
Ms. Dawn Ochoa
Polsinelli, Shalton, Welte, Suelthaus
Mr. Craig Smith
Ms. Janet M. Steck
Mr. Anthony L. Springfield
Ms. Linda Tell
Ms. Shelly Walker
Mrs. Glenda Worley

Mrs. Ruth E. Kruse
Ellen Dubinsky

Mrs. Ginny Lakemeyer
Mr. and Mrs. Karl R. Liberman

Mr. Richard H. Lauck
Mr. and Mrs. Carl I. Hanneke

Mrs. Isa Lawler
Mrs. Lorraine Wire

Dr. Sherman J. LeMaster
Mr. and Mrs. William Stern

Mr. Hugh M. Lewis
Mrs. Alexander M. Bakewell
Mr. and Mrs. M. Erwin Bry, Jr.
Mr. and Mrs. John C. McPheeters
Mrs. H. Leighton Morrill
Mr. and Mrs. H. Parker Smith

Mr. Walter L. Lloyd
Mr. and Mrs. George N. Wilson

Mrs. Joan Louise Long
Ms. Wendy Dusek
Mrs. Jeannie Hubert

Mrs. Gerry Lysinger
Ms. Diana L. Burnson

Mrs. Louise Mages
Mr. and Mrs. Rick Halpern

Mrs. Babs Manss
Mrs. Harold W. Dubinsky

Ms. Eileen Elizabeth McConnell
Ms. Elizabeth S. Finkle

Mr. Robert Higdon Million
Friends and co-workers at AT&T
Ruth

Mr. Pete Mistretta
Friends and co-workers in Horticulture
Mr. and Mrs. John A. Nischwitz

Mrs. Joan A. Mittler
Mr. and Mrs. John C. Smith

Mr. Ken Murphy
Ms. Barbara Wilmes

Mr. Michael J. Neary
Mr. and Mrs. Anthony McDonald

Ms. Hortense S. Nemnich
Mr. and Mrs. Charles B. Fruit

Sophia M. Sachs Butterfly House Pavers and Tributes

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in November/December 2006

Tributes

In memory of

Mrs. Helen Biesenkamp
Peggy Drackert
Joan Edelman
Roxane Holtman
Judy Rosen

Parents of Mrs. Jeannine Borror Stout
Mrs. Darcy S. Capstick

Mr. and Mrs. Melvin Leiendecker
Mr. and Mrs. Wally Cammarata

Pavers

Hope Bannes
Lorry and Deborah Bannes

Nora Bannes
Lorry and Deborah Bannes

Wendy Cook
Buckingham Asset Management, Inc.

For a Special Friend
Mr. and Mrs. Christopher Balestreri

Colleen Sonnenfelt
Paul Sonnenfelt

Paige Suter
James and Sandy Brungardt

Phyllis Zarek
Art and Karlene Bessler

Mr. John Noyes
Bill and Diane Irwin
Jim and Stacey Irwin
Gene and Melanie Irwin
Bev and Guy Krueger
Carol and Ed Schroeder
Sue Schultz
Virginia and Richard Ulrich

Gloria O'Connor
Family and Friends

Mrs. Marcia T. Osborne
Mrs. Charles M. Babington, Jr.
Mrs. Jennifer Casey
Mr. Paul J. Garvey, Jr.
Mr. and Mrs. Harry C. Gibbs
Ms. Claire Kinsey
Dr. and Mrs. Everett W. Kling
Mrs. Jill Garvey Lohr
Rispah Gamble Schwering
Mr. and Mrs. H. Parker Smith

Mrs. Barbara Peck
Mr. and Mrs. Karl R. Liberman

Ms. Michele T. Pidgeon
Mr. and Mrs. Charlie Uxa

Mr. Ronald Duane Reed
Missouri Botanical Garden Staff

Mrs. Elaine Reichardt
Mr. and Mrs. Hank Geissler

Mr. Robert Rellergert
Mrs. Judy Glasscock

Ms. Robin K. Ribaudo
Mr. John G. Long

Mr. Carl F. Ritchie
Mr. and Mrs. Paul D. Lauck
Mr. and Mrs. David R. Spivey

Mrs. Kathleen Sale
Mrs. Ann R. Husch

Mr. Robert L. Sanders
Mrs. Kitty Sanders

Mrs. Pauli Renfrew Scharff
Mrs. Ruth R. Bettman
Ms. Barbara S. Demerath
Mrs. William T. Dooley
Mr. and Mrs. George W. Ewing
Mr. and Mrs. Robert E. Murphy
Mr. and Mrs. Richard B. Rosenthal
Mr. and Mrs. Wilham W. Sant
Mrs. Audrey F. Smith

Mr. Herb Scheppers
Mr. and Mrs. Anthony McDonald

Mrs. Betty Russell Schlapp
Mrs. Carol C. Bitting
Ms. Mary Frances Hazelton
Ms. Jackie Juras
Missouri Botanical Garden Docents

Mr. Sam Scott
Mr. and Mrs. Derek Jensen
Signal Hills Garden Club

Mr. John "Jack" Sheehan
Norwest Corporation

Mrs. Dee Sinnard
Ms. Vicki Briggs
The Camenzind Family
Mr. William Dains
Mrs. Eleanor Dimercurio
Mr. and Mrs. Joseph M. Gorman
Mr. and Mrs. Robert S. Grommet
Mr. and Mrs. Thomas G. Heeger
Ms. Jennifer L. LoPorto
Ms. Susan M. McIntyre
Mid-Continent Paper–Kansas City
Mid-Continent Paper–St. Louis
Mr. and Mrs. Frank M. Sandy
Mr. and Mrs. Darren Schmiemeier
Mr. and Mrs. James D. Smith
Mrs. Terese L. Smith
Ms. Delores J. Speekman
Mr. and Mrs. Arthur C. Stone

Mrs. Jane Smallridge
Mrs. J.D. Pigott

Mrs. Estalee Smith
Ms. Carol A. Gruen

Mrs. Geraldine Epp Smith
Mr. and Mrs. George E. Stein

Mrs. Susan Burris Smith
Mr. and Mrs. Harley M. Smith

Mr. C. C. Johnson Spink
Deborah Taylor Sweeney

Mr. Wilfred Stein
Mr. and Mrs. James S. Harrington

Mr. Charles F. Stephens
Mr. and Mrs. Robert F. Jehle
Mr. and Mrs. H. Parker Smith
Ms. Clara H. von Gontard Steinlage
Mr. and Mrs. George N. Wilson
Mr. and Mrs. James E. Withrow

Mrs. Anneliese Sticklorat
Mr. Arman W. Schrenker
Mr. William E. Theiss

Mother of Diane Strickler
Barbara Ballinger
Joanna Buchholz
Lucy Buchholz`

Mother of Nayyar Sultana
Mr. and Mrs. Donald R. Hemmer

Mrs. Melba A. Sweets
Northview School Social Committee

Mr. Larry Thilking
Mr. and Mrs. Marvin Herpel

Mrs. Eileen Thomas
Mr. and Mrs. Paul Scotti

Mother of Olive Thompson
Dr. and Mrs. J. Joseph Horan

Mr. Allen A. Tieman
Mrs. Marie K. Grzesiowski

Mr. Gene Tischler
Dr. and Mrs. George H. Dowell

Mr. Walter C. Toeneboehn and Mrs. Edna S. Toeneboehn
Mr. Lukas A. Bader

Mrs. Diane Valente
Jim and Rosalie Cooper

Mrs. Genevieve E. Van Buren
Mr. and Mrs. Robert L. Crowe, Sr.

Mrs. Mary Lucille Walsh
Mrs. Phyllis Smith

Mr. Arthur E. Werner
Mr. and Mrs. Rudolph J. Hubacek

Mr. Rolla E. Wilhite
Mr. Rolla J. Wilhite

Mrs. Genevieve Williams
Mrs. Linda Weiner and Mr. John R. Culbertson

Mr. Karl T. Winkelmann, Jr.
Mr. and Mrs. Donald R. Hemmer

Mrs. Leona Winkler
Mrs. Judy Glasscock

Mrs. Hattie Wunderlich
Mrs. Barbara Renshaw

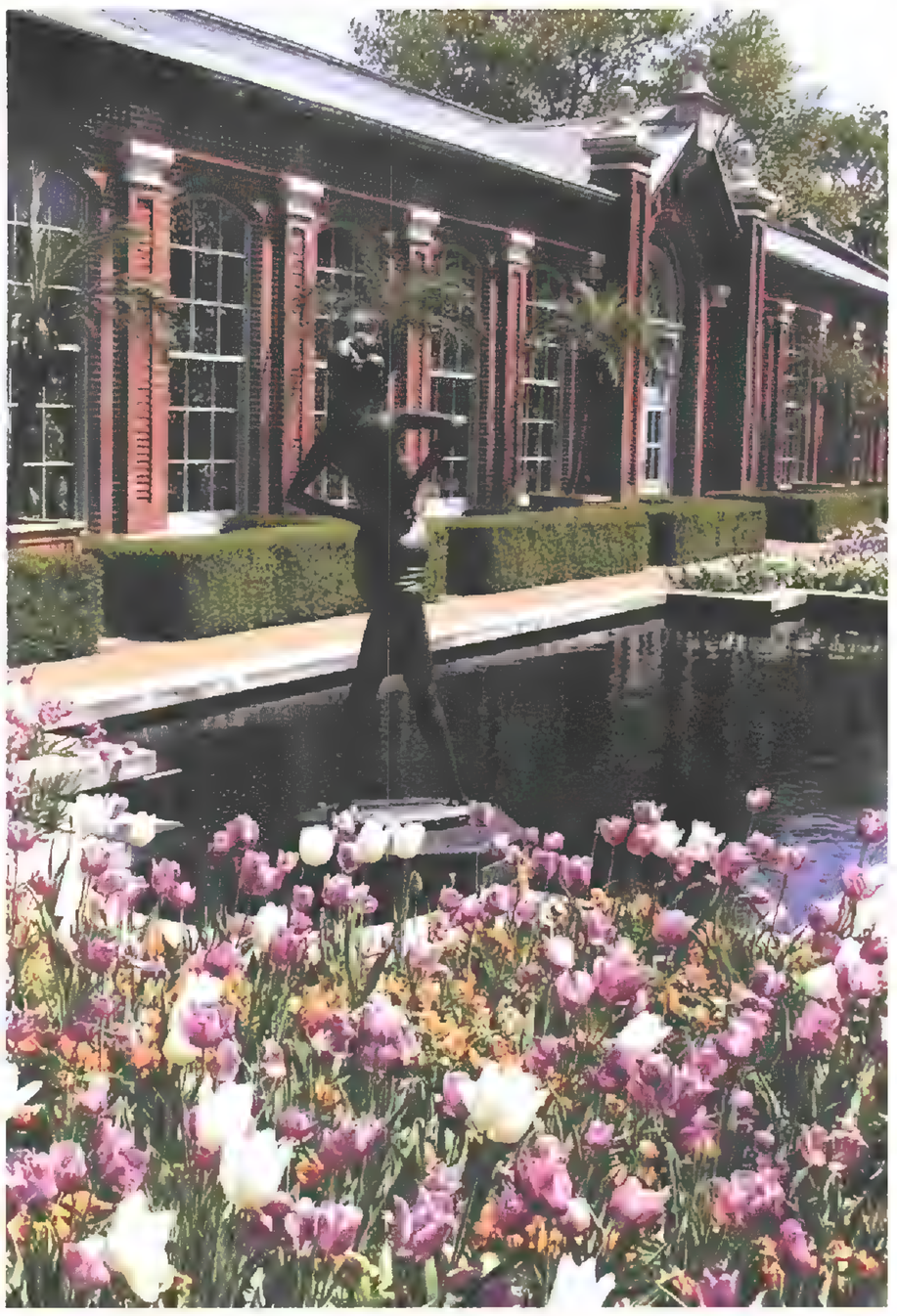


photo © Linda Sinclair

Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information. Or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from November/December 2006.

Bronze signature bricks

Virginia V. Bilhorn
Ms. Lisa B. Keyston

Jeannie Browning
Mr. Clyde Browning

Phyllis R. Dubinsky
Mrs. Ellen Dubinsky

Amy Kramer
Friends and co-workers at Polsinelli Shalton Welte Suelthaus

Henry Manganelli
Mr. Ernesto Rios-Diaz

Kaouru G. Rikimaru
Mr. Yuki Rikimaru

Frances Farnam Rubin
Mr. Louis B. Rubin

Delphine D. Sinnard
Family and friends of Mr. and Mrs. Edward A. Sinnard

Edward Amos Sinnard
Family and friends of Mr. and Mrs. Edward A. Sinnard

Donald B. Walker
Family of Donald B. Walker

Engraved clay bricks

Kenneth and Linda Bader
Mr. and Mrs. Kenneth L. Bader

Jessica and John Knoll
Mr. and Mrs. Donald J. Loos

Kristin M. Lane
Mr. Daniel Cole

Thomas P. Millea
Ms. Lauri Strimkovsky

Catherine Nahorski
Ms. Cathie Adams
Ms. Pat Farrar
Ms. Diane Gruchala
Ms. Cathy Kendra
Ms. Mary Knutson
Ms. Diane Ragan
Ms. Tamra Whittenberg

Larry E. Newell
Mr. and Mrs. Burt Wikgren

Scott A. Newell
Mr. and Mrs. Burt Wikgren

Hannah Elise Rashet
Dr. Lawrence A. Taylor

State Farm Central Zone
Mrs. Jean Baird

James Martin Teepe
Mr. and Mrs. John and M. Teepe

Jeffrey C. Wikgren
Mr. and Mrs. Burt Wikgren

Marilyn M. Wikgren
Mr. and Mrs. Burt Wikgren

Missouri Botanical Garden

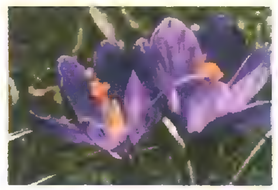
March 2007

average temperature: 45.8
average monthly precipitation: [illegible]

What's in bloom?

Snowdrop

Forsythia


Crocus

Daffodils

Hyacinth

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Through Mar. 11, *The Art of Orchids.* See page 6.	Register now for **spring classes and tours** at the Missouri Botanical Garden for adults and families. Visit www.mobot.org.		01 ■ Tower Grove House reopens. Admission is now FREE. ■ **Through Apr. 22** *A Shaw Nature Reserve Experience*, photos by Ronald Engemann. SNR.	02	03 ■ Shop The Container Store. See page 4. ■ Backyard Lily Hybridizing Lecture. 1 to 4 p.m.
04 ■ Shop The Container Store. See page 4.	05	06	07 	08 ◂ Native Plant School: Native Plant Propagation from Seed. SNR. $☎	09	10 ■ Vintner's Gala. $☎ ■ BUZZ: Friend or Foe: Beneficial vs. Pest. BH. 10 a.m. $☎ ■ Booksigning: *Orchids in the Cornfield.* Noon to 2 p.m. GGS.
11 ■ **Last day,** *The Art of Orchids.* See page 7.	12	13	14	15	16 	17 ◂ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m. ■ Booksigning: *A New Religion* (Tom Schlafly) 11:30 a.m. to 1:30 p.m. GGS.
18 ■ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m.	19	20 	21 ◂ Register now for **Camp MBG** (grades 1–8). Call (314) 577-9506 for information.	22	23 ** **Members' Day:** Plants of Merit, 11 a.m. See page 7.	24 ■ Horticulture Therapy Awareness Day. 11 a.m. to 3 p.m.
25 ■ From the Garden, Live: Jennifer Montone.	26	27	28	29	30 	31 ◂ ** **Members' Event.** Eggstravaganza.

April
2007

average temperature: 45.8
average monthly precipitation: 3.69 in.

Weeping Cherry

Azaleas

Tulips

Bluebell

Saucer Magnolia

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Palm Sunday 01 ▸ **Children's Garden** opens for the season. See page 9. ■ **From the Garden, Live:** Klezundheit! Noon. ☎	02 	03 	04	05	Good Friday 06 ■ Arbor Day. See page 7.	07
Easter 08 *(daylights savings time begins)* ■ Easter Brunch. See page 6.	09	10	11	12 ■ Birdscaping Lecture, SNR. See page 15.	13 	◂ BUZZ: Nature's Trashmen. BH. 10 a.m. $☎ 14 ■ Mid-America Regional Lily Society sale ■ Greater St. Louis Daffodil Society show ■ Tropi-ganza plant sale. 10 a.m. to 5 p.m. GGS.
Tax Day 15 ■ From the Garden, Live: Eva Kozma. Noon. ☎ ■ Mid-America Regional Lily Society sale ■ Greater St. Louis Daffodil Society show	16	17 	18 ◂ **Apr. 18–21** St. Louis Herb Society Herb Weekend	19 ■ St. Louis Herb Society Herb Weekend	20 ■ St. Louis Herb Society Herb Weekend	21 ■ Earth Day. See page 7. ■ St. Louis Herb Society Herb Weekend ■ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m.
22 ■ From the Garden, Live: St. Louis Children's Choir. Noon. ☎ ■ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m.	23	24	25 ▸ ** **Members' Evening in the Japanese Garden.** See page 7.	26 	27 ■ **Apr. 27 through June 17** *Alien Nature*, photos by Rodrigo Pedrolli and Michael Murphree.	28 ■ T'ai Chi Day. Sc ■ **Apr. 28 througl** *Chapungu: Natur and Myth.* See pa
29 ■ From the Garden, Live: Windfire. Noon. ☎	30 					

All events take place at the Garden unless otherwise noted.

BH = Butterfly House, (636) 530-0076
EWC = EarthWays Center, (314) 577-0220
GGS = Garden Gate Shop, (314) 577-5137
LS = Little Shop Around the Corner, (314) 577-0891
SNR = Shaw Nature Reserve, (636) 451-3512

** denotes a members-onl
$ denotes an additional fe
☎ denotes reservations requ
■ Guided walking tours, 1 p.
■ Early morning walking, every Wed. and Sat. from 7 a.m.

Missouri Botanical Garden Library
3 1753 00340 4792

photos by Matt Bender, Jessica Brown, courtesy Chapungu Sculpture Park, Krisiti Foster, Lisa Francis, Jack Jennings, JJ Lane, Josh Monken, Brian Mueller, Lee Shannon Rhoades, Charles Schmidt, Emily Snider, Erin Whitson, and www.mobot.org/gardeninghelp.

Contents

News 2
Events 6
Membership 7
Kidstuff 8
Gardening 10
Garden at Large 14
Eye on: Horticulture 16
From the field: Gabon 18
Tributes 19
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Education ..... (314) 577-5140
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Institutional Advancement ..... (314) 577-9500
Hort. Answer Service ..... (314) 577-5143
Volunteer ..... (314) 577-5187

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: Erin Whitson

©2007 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110

Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

This stunning five foot tall woven birdcage makes a beautiful display for plants too, like one of the many orchids we currently have for sale in the Garden Gate Shop.

March 23 and April 25
Members receive 20 percent off in the Garden Gate Shop and Little Shop Around the Corner and 10 percent off at Sassafras.

GARDEN GATE SHOP
(314) 577-5137
9 a.m. to 5:30 p.m. daily.
Fine gifts, plants, accessories, and jewelry.

LITTLE SHOP AROUND THE CORNER
(314) 577-0801
10 a.m. to 4 p.m, Tues
Antiques and collectibl
Donations welcome.

sassafras

CATERING ST. LOUIS
(314) 577-0200
Now booking 2007-08 parties and events at the Garden.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166–0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

QK1 .m593
c.2

MISSOURI BOTANICAL GARDEN

bulletin

May–June 2007 Vol. 95, No. 3

CHAPUNGU

nature, man, and myth

is now here!

From the President...

May and June are high season at the Garden. We anticipate iris, roses, peonies, daylilies, 6,500 new summer bulbs, and more. The Doris I. Schnuck Children's Garden reopened for the season on April 1 to the shouts of joy of hundreds of young nature explorers. Members are invited to take advantage of a special new benefit—free admission to the Children's Garden all day on Tuesdays. So once school's out, bring the kids and grandkids for guaranteed fun.

The Vintners' Gala this March was a great success, thanks to the dedication and hard work of our talented co-chairs William A. Donius and Cheryl and David Morley. Thanks to Anthony Bommarito of A. Bommarito Wines for sponsoring this lovely event to benefit the Garden.

We are pleased to welcome *Chapungu: Nature, Man, and Myth* to the Garden. These amazing sculptures depict the legends and teachings of the Shona people of Zimbabwe, and we are delighted to host many of the sculptors, who will conduct workshops throughout the summer. On Thursdays from May–September, *Chapungu Nights* will offer self-guided walking tours, music, and other entertainments. I encourage all members to purchase their tickets online today and enjoy their members' discount by entering password: **henryshaw**.

On a more sobering note, in February, I delivered a report on global warming to the United Nations produced by an international committee which I co-chaired with Dr. Rosina Bierbaum of the University of Michigan. The report spells out steps we must take to reduce the causes of global warming and to combat the increasingly evident symptoms. Here in the St. Louis region, the recent record-breaking cold spell, following fast on the heels of a hot and early spring, might be seen as a prelude to the kinds of extreme erratic weather we may find increasing as the warming effects of the last few decades are realized. I encourage all who have interest to visit the Garden's EarthWays Center during their open-house tours or via their website to learn more about simple things you can do on a personal level to help combat the causes of global warming.

See you at the Garden,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

Board of Trustees

Mr. Nicholas J. Reding, *Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. J. B. Eckelkamp, Jr.
Dr. Thomas E. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. John J. Klein
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr.
Carolyn W. Losos
Cheryl Morley
Mr. Jai Nagarkatti
Mr. Scott C. Schnuck
Dr. Henry Gerard Schwartz, Jr.
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Jack E. Thomas, Jr.
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Keinath, Jr.
Mr. Ralph Korte
Mr. Robert E. Kresko
June M. Kummer
Mr. F. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn L. Newman
Mr. William R. Orthwein, Jr.
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony F. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Carol Squires, *Chair*

MISSOURI BOTANICAL
APR 27 2007
GARDEN LIBR

renderings by Christner, Inc.

The new Doris Waters Harris Lichtenstein Victorian District includes renovated paths and pillars (left) and an authentic Victorian pincushion garden (right).

New Victorian District Made Possible

This spring, the Garden received a substantial gift to establish the Doris Waters Harris Lichtenstein Victorian District. The donation will unify a large area of the Garden from the *Victory of Science over Ignorance* to the Garden's eastern wall stretching back to Henry Shaw's original city house. Initial plans have been designed by MTR Landscape Architects in consultation with renowned authority on Victorian gardens, Dr. Brent Elliott, Librarian and Archivist at the Royal Horticultural Society Lindley Library in London. Preliminary work is slated to begin this summer and will continue in 2008.

"This donation will transform the area into the kind of Victorian promenade and showplace that Henry Shaw would have loved," says Garden president Dr. Peter H. Raven. "We are grateful to the Lichtensteins for the commitment, vision, and generosity to bring several gardens and buildings together into one unified district."

Planned developments include:

- Construction of a Victorian-style pincushion garden along the path to the Observatory.
- Resurfacing of many paths in brick and other historically appropriate materials.
- Redirecting some paths for more scenic views.
- Installation of new period path lighting.
- Addition of columned entrances on two paths leading into the Victorian District.

"David and I are pleased our gift will unify and enhance the Victorian elements of the Garden in keeping with Henry Shaw's life and times," says Doris Lichtenstein. "I am honored to have my name and my families' names associated with this internationally known St. Louis icon, which I have visited since early childhood, later with children, and now, grandchildren."

Garden founder Henry Shaw was himself a Victorian gentleman and designed much of his property to reflect Victorian sensibilities. His country home, Tower Grove House, was built in 1849 in the then-fashionable Italianate "Lake Como" style. His granite mausoleum beneath the towering oaks highlights the Victorian fascination with death and legacy. Many areas encompassed by the new Victorian District were designed to complement or even replicate Shaw's Victorian style and have benefited from the generosity of donors throughout the years.

Kresko Family Victorian Garden (1997), east of Tower Grove House, resembles an early garden built by Shaw on the present site of the lily pools. Then, as now, the centerpiece was the statue of *Juno*.

Kaeser Maze (1986) re-creates a maze constructed by Shaw in the 1800s with sunken hedges of yew and arborvitae.

Piper Observatory (1996) is a replica of one built by Henry Shaw in the nineteenth century in Tower Grove Park.

St. Louis Herb Society Herb Garden (2003), enclosed in an ornamental iron fence behind Tower Grove House, includes beds of culinary and medicinal herbs in imitation of Shaw's original kitchen garden.

Tower Grove House (1849) underwent a two-year renovation and reinterpretation as part of the *Stewards of the Earth* campaign before reopening in 2005 with a renewed focus on the life and times of Henry Shaw.

VINTNERS' GALA 2007

On Saturday, March 10, vintners from around the world gathered at the Garden for an evening of fine wine, gourmet food, and sparkling conversation. Tables sampled private vintages and bid in a silent auction while enjoying a sumptuous meal. It was a very special gala in cooperation with A. Bommarito Wines to benefit the Garden.

CO-CHAIRS

William A. Donius
Cheryl and David Morley
Patricia and Peter Raven

COMMITTEE

Ted Atwood
Bob Bagby
Nini and Cedge Barksdale
Ellen and Henry Dubinsky
Kathleen and Mike Dudley
Angie and Chris Eckert
Betty and Leonard Guarraia
Patty and Mike Heim
Joyce and Bob Herleth
Lynne and Ed Higgins
Kathryn and David Hollo
Laure and Jim Hullverson
Marylen Mann and Frank Jacobs
Paula and Joe Lampen
Janet and David Lange
Mary and Tony Longrais
Sharon and Robert Mertzlufft
Susan and Walt Rice
Marsha and Bill Rusnack
Linda and Harvey Saligman
Joan and Chuck Sheppard
The Honorable and
Mrs. Francis G. Slay
Carol and Jim Squires
Jane and Bob Tschudy
Anne and Eric Weidmann

PRESENTED BY

A. Bommarito Wines,
Mr. Anthony M. Bommarito

GRAND CRU SPONSORS

A.G. Edwards

PREMIER CRU SPONSORS

The Boeing Company
Macy's
Monsanto Company
Pulaski Bank

CRU CLASSÉ SPONSORS

Arch Coal, Inc.
Fifth Third Bank
Kathryn and David Hollo
KPMG
U.S. Bank

PATRON SPONSORS/ PATRON TICKETS

Anonymous
Kimmy and Steve Brauer
Jean Crowder
Marilyn and Sam Fox
Laure and Jim Hullverson
Husch & Eppenberger, LLC
Cheryl and David Morley
Jane and Don Musick
Carolyn and Dennis Plummer
St. Louis Business Journal
Tracy and Craig Schnuck
Barbara and Andy Taylor

Dr. Peter H. Raven, co-author of a report to the U.N. on climate change, stands with other scientists on the panel.

Global Warming Warnings

In February, an international panel of 18 scientists from 11 countries presented the United Nations with a plan to combat climate change. The president of the Garden, Dr. Peter H. Raven, was co-chair of the panel with Dr. Rosina Bierbaum, professor and dean of the School of Natural Resources and the Environment at the University of Michigan. The panel prepared the report to the U.N., entitled "Avoiding the Unmanageable and Managing the Unavoidable." In it, the panel calls for a two-part approach to minimize the damages of human-caused climate change.

- Slow known causes of change, that is, reduce global carbon dioxide emissions, through a mix of new and existing technologies.
- Prepare to adapt to changes that cannot be avoided via land management, sustainable new building, and weather-emergency preparedness.

"The human race, now numbering 6.5 billion people, has never faced a greater challenge," write Drs. Raven and Bierbaum, "There is no time for further delay." For more information on what you can do, visit the Garden's EarthWays Center at www.earthwayscenter.org.

The Container Store Opening

Drs. Raven with Garrett Boone, co-chair of The Container Store

On March 3-4, The Container Store opened their first Missouri store in St. Louis. It turned out to be one of their top five openings nationally, and as promised, they donated ten percent of grand opening weekend sales to the Missouri Botanical Garden. In addition, The Container Store will perform a makeover on the stockroom of the Garden Gate Shop.

NEW! High School Service Program

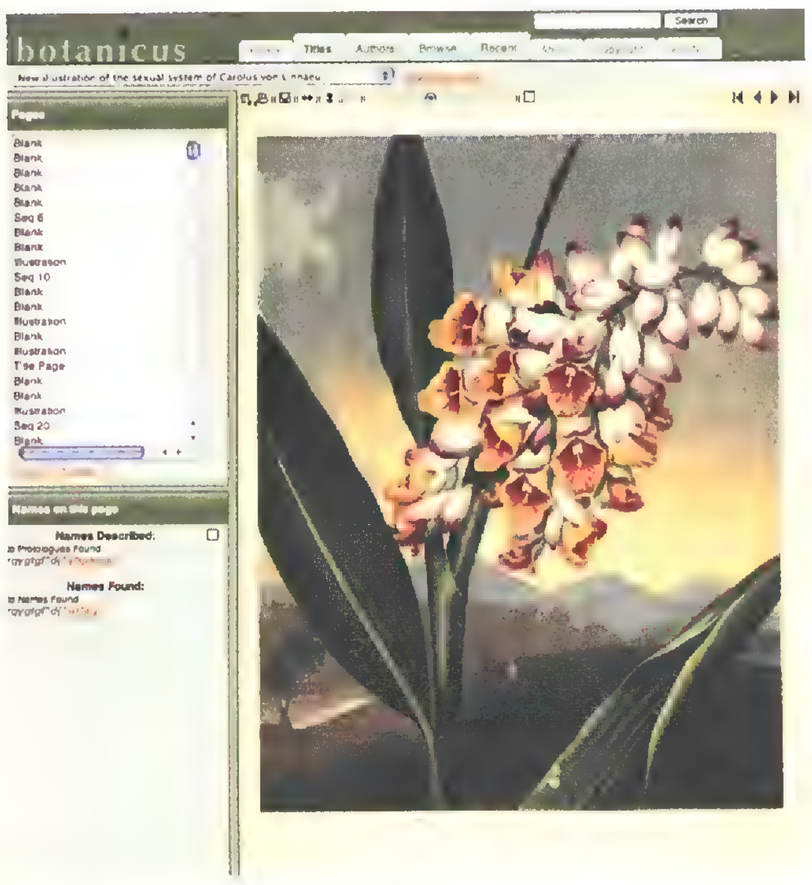
The SAGE (Students As Garden Educators) Service Program offers students, ages 14–18, an opportunity to teach visitors about botany, ecology, and the Garden. Is your high schooler outgoing? Eager to learn new material and share it? Interested in spending time outdoors in a beautiful setting? The SAGE Service Program might be right for them this summer. For information, call (314) 577-5134 or e-mail jessica.kester@mobot.org.

photo by Laura McLean

Terrace Café in the Kemper Center

Terrace Café Now Open

The Terrace Café in the Kemper Center for Home Gardening has reopened for summer. Open daily from 10 a.m. to 3 p.m., the Terrace Café serves a small menu of sandwiches, salads, snacks, and drinks in a greenhouse setting. A great option for visitors to the Doris I. Schnuck Children's Garden, Kemper Center for Home Gardening, or for anyone who'd like a snack and a beverage before heading back to the Ridgway Center.



Botanicus.org allows anyone interested to view historic works on botany online.

Botanicus.org at the Garden

Three years ago, the creators of Botanicus.org set out to build one of the world's largest digital libraries to allow free and improved access to historic scientific literature. Today, the Missouri Botanical Garden-based web library has surpassed 600,000 pages, encompassing over 1,000 volumes online and counting. Botanists, researchers, students, and anyone interested in natural history and beautiful rare books can view this digitized library of books that date from 1480 to 1980, search on keywords, even zoom in for up-close views of illustrations.

"For researchers working in the developing world or even many areas of North America and Europe, a lack of access to library resources can delay recognition and publication of new plant discoveries," says Douglas Holland, Garden curator of library services.

Botanicus was funded by a $950,000, three-year grant in 2004 from the W.M. Keck Foundation. Books were prioritized based on citations in the Garden's TROPICOS database. Botanicus is being used as a model in the emerging Biodiversity Heritage Library Project, a collaboration of the world's largest natural history libraries.

May Events

Chinese Culture Days offers fun, food, and festivities for the entire family.

Chinese Culture Days

The daring New Shanghai Acrobatic Circus returns to thrill audiences at the Garden's annual celebration of Chinese arts, culture, and cuisine. Don't miss the Grand Parade which kicks off the event at 10 a.m. Saturday with a colorful 70-foot dancing dragon followed by martial artists and lion dancers. Try t'ai chi, taste tea, and learn about Chinese gardens. You'll also be among early viewers of the new Chapungu sculpture exhibit in this rare and lucky Year of the Boar in the Chinese zodiac. Download the complete schedule of events from the Garden's website: www.mobot.org.

Chinese Culture Days 2007
Saturday-Sunday, May 19–20, 10 a.m. to 5 p.m.
Admission: $10 ($7 seniors 65+); children (3–12): $3
Garden members: $3
Family level members and above: free
Members' children (12 and under): free

Flower Festival at Christ Church Cathedral
Friday–Sunday, May 4–6, 1210 Locust Street
Garden founder Henry Shaw stipulated in his will that an annual sermon be preached on "the wisdom and goodness of God as shown in the growth of flowers, fruits and other products of the vegetable kingdom." Dr. Peter H. Raven, President of the Missouri Botanical Garden, will speak May 5 at 11 a.m. and May 6 at 9 and 11:15 a.m. For details, call (314) 231-3454.

Annual Greenhouse Plant Sale
Thursday, May 10, 9 a.m. to 4 p.m.
Greenhouse complex
Find overruns of annuals grown for Garden grounds; large, unusual stock plants used in propagation; and many perennials, tropicals, ferns, and interesting woody plants. Plants from the Flower Sunday installation will also be available for purchase. Cash, check or MasterCard/Visa accepted. No discounts. All proceeds benefit the Garden. Supplies are limited, so please shop early.

Garden Party at Eckert's
Thursday, May 24, 5:30 to 8 p.m., 951 S. Green Mount Rd. in Belleville
An evening of wine and food tasting and gardening demonstrations by experts to benefit the Garden's Illinois outreach. $15 per person ($10 for Garden members). Reserve your place by calling (314) 577 0291.

Morris Ale
Saturday, May 26, 1 to 3 p.m., Garden grounds
A gathering of traditional Morris dancers, cloggers, sword dancers, and garland teams in picturesque costumes, from throughout the U.S. and Canada. Morris dancing is an ancient form of English folk music and dance.

Illinois Appreciation Week
May 27 through June 2
Illinois residents are invited to stop and smell the roses this spring when the Garden offers two-for-one admission during Illinois Appreciation Week. Visitors with proof of Illinois residency will also receive a 10 percent discount in the Garden Gate Shop and 20 percent off new or gift memberships during this special week.

Mother's Day Brunch

Sunday, May 13

Treat mom to an elegant and delicious brunch at Sassafras. Reservations required, so please call (314) 577-9530. Seatings at 10 a.m., 11:30 a.m., and 1 p.m. $24.95 per person; $11.95 per child age 5-12; children 4 and under are free (tax not included).

sassafras

Catering St. Louis is the exclusive caterer of the Missouri Botanical Garden

June Events

photo by Josh Monken

Trio Tres Bien performs at the 2004 Whitaker Music Festival.

Whitaker Music Festival 2007

Warm, rose-scented evenings signal it's time for the Whitaker Music Festival. Now in its 13th year, the open-air festival presents ten free Wednesday-night concerts: jazz in June and a variety of musical styles thereafter. The Festival is one of the only occasions when picnicking is allowed at the Garden, and concertgoers are invited to bring lawn chairs, blankets, and picnic suppers to enjoy. Food and drink may also be purchased.

Please note: pets and barbecue grills are not allowed. In case of rain, check the Garden's website at www.mobot.org or tune in to radio station WSIE, 88.7 FM, for cancellation information. Free off-street parking is available in lots at the Shaw-Vandeventer intersection two blocks west.

The festival is funded by the Whitaker Foundation, which supports St. Louis arts and parks to promote common heritage, celebrate diversity, and encourage vitality within the community.

Whitaker Music Festival 2007
Ten free concerts, Wednesdays at 7:30 p.m.
(free admission after 5 p.m.)

June 6	Jeremy Davenport, *jazz trumpeter and vocalist*
June 13	Trio Tres Bien, *a venerable St. Louis jazz tradition*
June 20	Dave Black and Friends, *jazz/pop guitar virtuoso*
June 27	Erin Bode, *St. Louis's star vocalist*
July 4	The Flying Mules, *Missouri bluegrass*
July 11	Wil Maring, *acoustic country*
July 18	Baker-McClaren Band, *blues veterans*
July 25	Melissa Neels, *rising blues star*
August 1	Peter Mayer, *world-traveled singer/songwriter*
August 8	Gumbohead, *zydeco and Louisiana funk*

photo by Brian Mueller

Gift Memberships for Mom and Dad

Looking for something different for mom and dad this Mother's and Father's Day? This year, purchase a gift membership for Mother's Day through May 13, or for Father's Day through June 17, and you'll receive an extra treat: your choice of Wehrenberg movie passes or a Waterway Gas and Wash "Whole Thing" carwash while supplies last. No matter which you choose, all gift memberships will be entered into a drawing for a Waterway "Clean Car Club" membership, which provides unlimited carwashes all year long and discounts on gasoline. For details, stop by the Membership Services Desk on grounds, or call (314) 577-5118 or visit us at www.mobot.org. Offer applies to on-site membership sales only.

Members Events

Rose Evening 2007 welcomes all members and brick donors.

Rose Evening

Wednesday, May 30, 5:30 to 8 p.m.
All members are invited to enjoy the beauty and fragrance of two rose gardens at peak bloom. Garden horticulture experts will provide answers to all your rose-growing questions. Strolling musicians, cash bar, attendance prizes, and everyone receives a long-stemmed rose to take home. Tower Grove House will be open during Rose Evening, and special selections will be available from the Sassafras menu.

Brick Donor Evening

Wednesday, May 30, 5:30 to 8 p.m.
Recent Brick Donors are invited to attend Rose Evening and view their newly installed tribute bricks in the Members' Entry Court of the Kemper Center.

Children's Gardening*
Saturday, May 5, 9 a.m., 11 a.m., Cohen Amphitheater
Join Doug Wolter of St. Louis County Parks and the Children's Garden Club and learn to plan, plant, and harvest a vegetable garden. Take home a plant courtesy of Wiethop's Greenhouses. Doris I. Schnuck Children's Garden admission will be free for all members' children attending this session.

Member Orientation*
Sunday, May 6, noon, Shoenberg Auditorium
Get the lowdown on events, discounts, classes, volunteer opportunities, and all the benefits membership offers. Tour at 1 p.m. follows the presentation. Participants receive discounts in Sassafras and the Garden Gate Shop. Bring your friends along who might want to become members!

Members' Musical Evening*
Friday, June 1, 5:30 to 8:30 p.m., Spoehrer Plaza
Bring a picnic dinner, lawn chairs, and blankets, and enjoy an evening of big band music and dancing, compliments of Gateway City Big Band. Music begins at 7 p.m. Cash bar.

Members' Day: Birding at SNR*
Saturday, June 16, 7 to 10 a.m., Shaw Nature Reserve
Bring your binoculars, park at the lot in front of the Bascom House, and enjoy the morning with birding experts in the Whitmire Wildflower Garden. Light refreshments provided, but members are invited to bring a picnic and stay to enjoy the day.

Tower Grove Auxiliary Bus Trip to Fulton, MO
Tuesday, June 19, 7:45 a.m. to 5 p.m., meet at the Ridgway Center
Visit the Winston Churchill memorial, enjoy an organ concert at the Church of St. Mary, buffet lunch at Beks, and a stop at Crane's Museum and Shops in Williamsburg. Tickets are $50. Call (314) 577-5154 by June 12 to reserve your place.

Members' Day: Tour of Daylily Garden*
Thursday, June 28, 11 a.m., Shoenberg Auditorium
Chick Buehrig of the MBG Daylily Society presents information on the Jenkins Daylily Garden and growing and caring for daylilies. A walking tour with members of the Daylily Society follows the presentation.

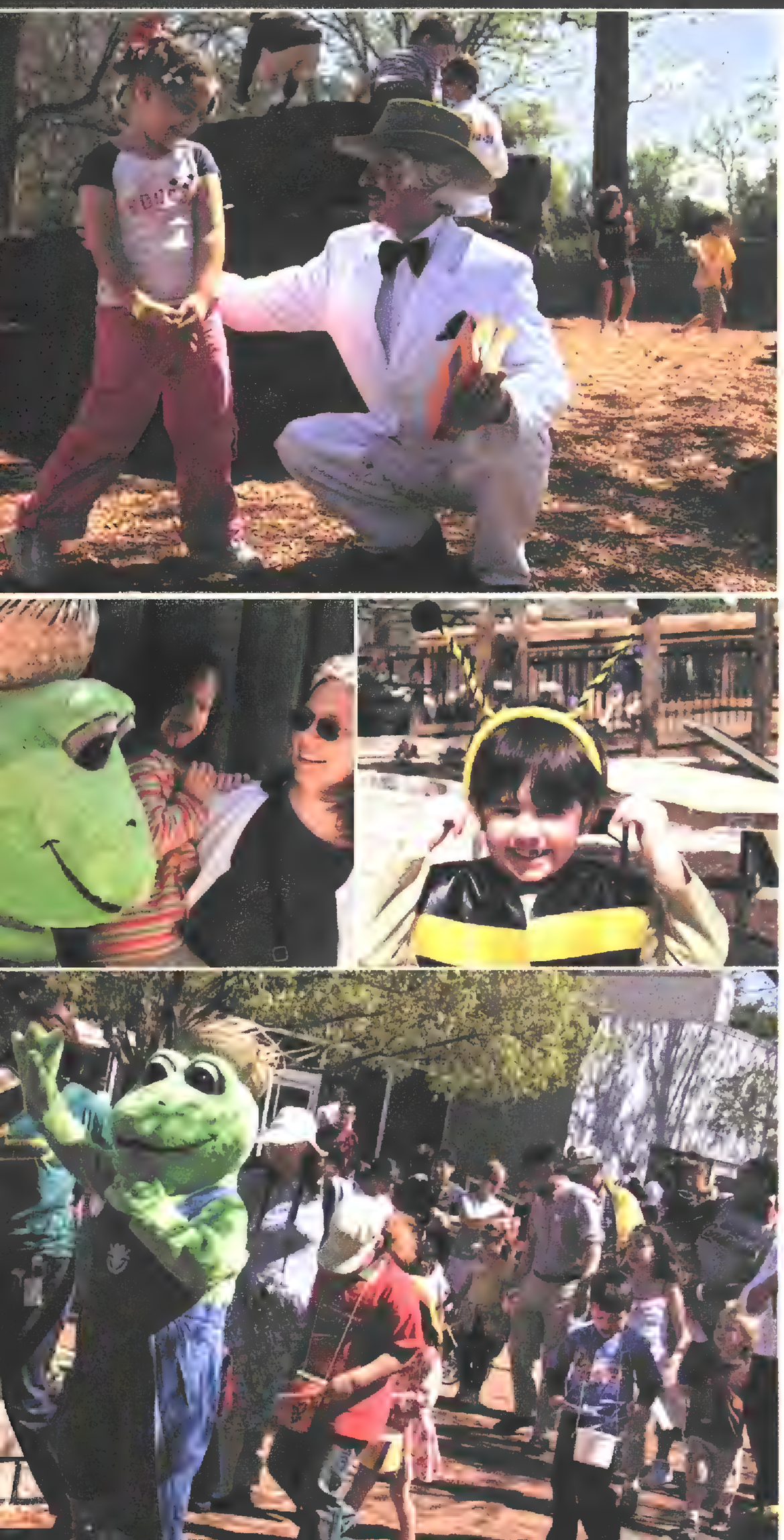
**Members' Days occur once a month or more and feature free presentations and tours. On these days, members enjoy discounts of 10 percent in Sassafras and up to 20 percent in the Garden Gate Shop and Little Shop Around the Corner.*

Children's garden

Now open. Hop on over!

Grand opening for the Season

On April 1, the Doris I. Schnuck Children's Garden: A Missouri Adventure—sprang to life as hundreds of revelers greeted the end of the dormant winter season on a sunny, blue-sky day.



photos by Claudia Lancaster and Josh Monken

Doris I. Schnuck Children's Garden: A Missouri Adventure

Hours: April through October, 9 a.m. to 5 p.m.
Admission: $3 per child, ages 3–12; adults and children 2 and under are free

NEW! Garden members and their children receive free admission on Tuesdays!

Children's Garden Summer Kick-off

Saturday, May 5, 9 a.m. to 5 p.m.

On May 5, the Doris I. Schnuck Children's Garden launches an important new facility and a summer of fun programming. Be the first to try them out!

Great Green Adventures | *11 a.m. to 2 p.m.*

Join us for our new drop-in family programs focusing on nature study, nutrition, and exercise. Travel each week on a Great Green Adventure and explore the Garden's family of attractions. At the Great Green Adventure kick-off May 5, the Children's Garden frog mascot Finn will greet kids who stop by to test their green thumbs by planting vegetables, flowers, or seeds to take home. Doug Wolter from the FOX-2 Children's Garden Club will assist with activities and tell parents about the Garden Writers Association's "Plant a Row for the Hungry" program. Download a complete schedule and locations of Great Green Adventures from the Garden's website: www.mobot.org/finn.

New Nature Explore Classroom Opens | *9 a.m. to 5 p.m.*

An innovative new area at the Doris I. Schnuck Children's Garden connects children to the outdoors through the use of natural materials in creative, unstructured play. The Garden is the first botanical garden and second institution in the country to establish a certified Nature Explore Classroom, opening May 5 with fun activities and giveaways.

Nature Explore Classrooms were conceived by The National Arbor Day Foundation and Dimensions Educational Research Foundation as a direct response to "nature deficit disorder," defined as a growing lack of engagement and interaction between children and nature. Within the Garden's "classroom," kids can build with blocks and tree cookies (cross-segments of a tree trunk), create music with rain sticks and other natural instruments, climb log steps, dance with colorful scarves, or make art from plant material, stones, and seed pods.

EVENTS *continued*

Chapungu sculpture A Time Together *by Joe Mutasa*

Now on view: Chapungu

Saturday, April 28 through Wednesday, October 31, included with admission (free for members)

Come see this extraordinary collection of 23 monumental contemporary African stone carvings of people, animals, and creatures of legend by artists from Zimbabwe. Sculptures represent a traditional African family's attitude and close bond to nature and the environment, and the myths and legends that enrich the culture of the Shona people.

Chapungu ("Cha-POONG-goo") is a metaphor for the Bateleur Eagle, *Terathopius ecaudatus*, a powerful bird of prey that can fly up to 300 miles in a day at 30 to 50 miles per hour. It lives in the savannahs, open forests, and semi-deserts of central and southern Africa. The Shona people believe the "Chapungu bird" is a good omen and brings protection and good fortune.

With sponsorship from:
Enterprise Rent-A-Car Foundation
Jack and Susan Taylor
Andrew and Barbara Taylor

Chapungu Nights
Thursdays, May 3 through September 27, 5 to 9 p.m.
Admission: $10 ($5 for Garden members)
Stroll through the Garden on a beautiful summer evening and take a self-guided tour of the Chapungu sculptures. Enjoy music or special entertainment and sculpting demonstrations. Purchase dinner or appetizers and cocktails at Sassafras, the Garden's café.

On opening night, May 3, nationally renowned African drummer and storyteller Kenya Ajanaku performs with the Harambee Dancers. To download the complete schedule, visit the Garden's website at www.mobot.org. Purchase tickets online with your members' discount by using the password: **henryshaw.**

Artist-in-Residence Workshops
June through September
One of the most delightful surprises of the 2001 Chapungu exhibit was the success of the Artist-in-Residence Workshops. In five short days, student sculptors under the tutelage of guest artists from Zimbabwe created truly beautiful works of art. Even more surprising was the fact that many students had no previous artistic training.

Chapungu artist-in-residence workshops are conducted each week throughout June, July, August, and September. Classes are limited to six students per artist. No experience is required. Each new class begins on Tuesday and ends on Saturday. The hours are 9 a.m to 4 p.m with a 1-hour lunch break.

Workshop participants receive a 10 percent discount in the Garden Gate Shop and Little Shop Around the Corner, and a 20 percent discount in Sassafras, the Garden's café.

2001 Chapungu Workshop

The fee is $500 ($450 for Garden members) and includes a large sculpting stone from Zimbabwe, a set of tools to keep, and instruction by prominent Zimbabwean artists.

On-line registration is available at www.mobot.org or call (314) 577-5117.

"I loved my workshop. A great mix of students from all walks of life, a wonderful experience—one of the top ten in my life."
– 2001 workshop participant Nancy G.

The Linnean House, built in 1882 (photo at left circa 1890), is named for Carl Linnaeus, the inventor of the two-name system.

Happy 300th Birthday, Carl Linnaeus!

Carl Linnaeus from Thornton's Temple of Flora *(London: 1807) in the Garden's rare book collection.*

Carl Linnaeus was born on May 23, 1707, the fourth generation of Lutheran parsons in a southern Swedish parish. Although an early disappointment to his parents for his lack of interest in the seminary, he would go on to become the botanist and medical doctor who invented the system for naming plants and animals still in use today. We know it as the binomial or "two-name" system, a.k.a., *Genus species*.

Two names are better than...a zillion!
Linnaeus also created an artificial system of classification, not perfect, but one so simple that even an amateur naturalist could understand. For plants, he made an initial division according to their pistils and stamens, then he promoted the use of a two-word name. Before Linnaeus popularized this binomial system, plant names were long, descriptive chunks of text, ranging from a sentence to a full paragraph!

What's in a name?
Quite a lot, if you want to be certain you have the correct plant for a medicine or food, or determine if a species is rare or endangered. In the 18th century, newly discovered species were flooding into Europe—from the Americas, Africa, and Asia. Linnaeus created a system that would help cut through the confusion, inspiring the development of an entire branch of science devoted to the general principles of scientific classification: taxonomy.

Taxo-what?
Taxonomy, a division of systematics, is the classifying and naming necessary before further research can take place. Linnaeus is considered the Father of Taxonomy, and today researchers at the Missouri Botanical Garden continue his work. Garden research in 35 countries around the globe helps provide the crucial information necessary for policymakers to set conservation priorities and preserve our biodiverse planet.

The Linnaean* Collection
The Missouri Botanical Garden Library is home to a rich collection of Linnaean materials, including a first edition *Species Plantarum* (1753), the title that popularized Linnaeus's two-name system. Several titles have been digitized and are viewable at www.botanicus.org. (For more information on Botanicus, see page 5.)

* *Both spellings, Linnean and Linnaean, are correct.*

What to do in your garden now...

clip and save

photo by Kevin Wolf

May

all month

- ❑ If spring rains have been sparse, begin irrigating, especially plants growing in full sun.
- ❑ Growing lettuce under screening materials will slow bolting and extend harvests into hot weather.
- ❑ Mulch blueberries with pine needles or sawdust.
- ❑ Keep bluegrass cut at 1.5 to 2.5-inch height. Mow tall fescues at 2 to 3.5-inch height.

week 1

- ❑ Begin planting gladiolus bulbs as the ground warms.
- ❑ Plant hardy water lilies in tubs or garden pools.
- ❑ Continue monitoring pines for sawfly activity on new shoots.
- ❑ Don't remove spring bulb foliage or next year's flower production will decline.
- ❑ Set out and stake tomato plants as soils warm.
- ❑ Begin planting sweet corn when white oak leaves are as big as squirrel ears (isolate varieties to prevent crossing).
- ❑ Keep asparagus harvested for continued spear production (control beetles as needed).
- ❑ Thin plantings of carrots and beets to avoid overcrowding.
- ❑ Control caterpillars on broccoli and cabbage plants by handpicking or use biological sprays.
- ❑ Don't spray fruits while in bloom.

week 2

- ❑ Begin planting warm-season annuals.
- ❑ Plant summer bulbs such as cannas, caladiums, dahlias, elephant ears.
- ❑ Place a stake by squash and cucumber seeds when planting in hills to locate the root for watering later.
- ❑ Mow zoysia lawns at 1.5-inch height. Remove no more than one-half inch at each mowing. Apply post-emergence broadleaf weed controls now if needed.

week 3

- ❑ Scale crawlers are active. Treat infested pines and euonymus now. Spray trees with a history of borer problems (repeat twice at 3-week intervals).
- ❑ Begin fertilizing annuals.
- ❑ Bulbs can be moved or divided as the foliage dies.
- ❑ Remove rhubarb seeds stalks as they appear.
- ❑ Set out peppers and eggplants after soils have warmed.
- ❑ Plant sweet potatoes.
- ❑ Zoysia lawns may be fertilized now. Apply no more than 1 lb. of actual nitrogen per 1,000 sq. ft.

week 4

- ❑ Pinch back mums to promote bushy growth.
- ❑ Sow warm-season vegetables after harvesting early crops.

photo by Kevin Wolf

June

all month

- ❑ Water turf as needed to prevent drought stress. No need to remove clippings unless excessive. Gradually increase the mowing height of zoysia lawns throughout the summer. By September, the mowing height should be 2 to 2.5 inches. Mow bluegrass at 2 to 3.5 inch height. Turfgrasses growing in shaded conditions should be mowed higher.

week 1

- ❑ Watch for bagworms feeding on many garden plants, but especially juniper and arborvitae.
- ❑ Deadhead bulbs and spring perennials as blossoms fade.
- ❑ Thin seedlings to proper spacings before plants crowd each other.
- ❑ Repeat plantings of corn and beans to extend the harvest season.
- ❑ Oriental fruit moths emerge. Most serious on peaches where first generation attacks growing tips. Prune out wilted shoots.
- ❑ Thinning overloaded fruit trees will result in larger and healthier fruits.
- ❑ Zoysia can be fertilized now while actively growing. Do not exceed 2–3 lbs. of actual nitrogen fertilizer per 1,000 sq. ft. per year.

week 2

- ❑ Apply organic mulches as the soil warms.
- ❑ Apply a balanced rose fertilizer after the first show of blooms is past. Apply a second spray for borer control on hardwood trees.
- ❑ Renovate strawberries after harvest. Mow the rows, thin out excess plants, remove weeds, fertilize, and apply mulch for weed control.
- ❑ Summer fruiting raspberries are ripening now.

week 3

- ❑ Plant tropical water lilies when water temperatures rise above 70 degrees.
- ❑ Pruning of spring-flowering trees and shrubs should be completed before month's end. Softwood cuttings can be taken from trees and shrubs as the spring flush of growth is beginning to mature.
- ❑ Begin control for apple maggot flies. Spray trunks of peach trees and other stone fruits for peach tree borers.

week 4

- ❑ Trees and shrubs may still be fertilized before July 4.
- ❑ Spray roses with a fungicide to prevent black spot disease.
- ❑ Prune and train young fruit trees to eliminate poorly positioned branches and to establish proper angles.

Cold Snap 2007

The record-breaking cold spell in early April put a damper on an early, warm spring, and gardeners must be patient with damaged plants, especially trees and shrubs, as they recover. You may notice a slight decline in appearance before your garden looks "normal" again, but this is only a temporary setback. Some tips:

- Cut perennials with damage back to the ground for rapid new growth.
- Do not prune frosted trees and shrubs, but instead allow them to produce new growth naturally.
- Water cautiously, avoiding soggy conditions, but do irrigate during long dry spells.
- Do not fertilize heavily.

Given time and patience, your gardens will recover. For specific inquiries, call the Garden's Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143, or visit the Gardening Help section of the website at www.mobot.org.

Featured Plant of Merit™

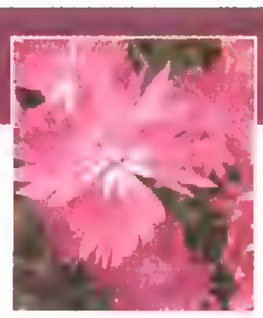


Photo by Glenn Kopp, Missouri Botanical Garden Plantfinder

Cheddar Pink
Dianthus 'Feuerhexe'
FIREWITCH

A sun worshipper, this bright pink dianthus has multiple-season beauty. The blue-green foliage can be a dramatic touch to wall and hillside gardens where the drainage is fast. Heat and humidity isn't a problem for this fragrant beauty. Shear gently once flowering is finished for overall tidiness.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

Gardening

photo by Justin Visnesky

Goodman Iris Garden

Iris High Season

Part of the time-tested treat of a Mother's Day visit to the Garden is a stop at the Goodman Iris Garden, where over 1,500 unique types of iris are represented in a rainbow of colors (Iris was the Greek goddess of the rainbow after all). The cold snap slowed the hot, early spring this year, so peak bloom is again predicted to fall on or just before Sunday, May 13.

NEW! Stop and smell the irises? "We have added many new historic irises to the collection, varieties dating to the early 1800s," says **Senior Horticulturist Jason Delaney**. "While typically devoid of the billowy ruffles seen in flamboyant contemporary hybrids, these historic cultivars, such as a variety called 'Licorice Stick,' provide unforgettable fragrances of grape, citrus, or anise."

NEW! Plants of Merit™ Garden

This year, the Kemper Center for Home Gardening introduces a new Plants of Merit bed, featuring over 30 plants from the growing Plants of Merit roster. Plants of Merit are selected for outstanding qualities and dependable performance in our region. The new Plants of Merit Bed should be of interest already by May. Check out some of these tested favorites:

- **False Sawara Cypress** (*Chamaecyparis pisifera*), with yellow foliage all year.
- **Boxwood** (*Buxus* 'Morris Midget'), small, and can handle harsh winters.
- **Hardy Geranium** (*Geranium* 'Rozanne') with purple flowers which replenish continually all summer.
- **Fire Bush** (*Hamelia patens*), a tropical used as an annual in our climate to attract hummingbirds.

Volunteers help sort plastic pots for recycling.

Plastic Pot Recycling

Area gardeners planting flowers to beautify a landscape have somewhere to turn to ensure their leftover plastic pots don't do the opposite. Help reduce the amount of horticultural waste in landfills by recycling your plastic garden pots, polystyrene cell packs, and trays at the Garden's annual Plastic Pot Recycling collection.

Now in its ninth year, the Plastic Pot Recycling program keeps over 750,000 pounds of plastic out of area landfills annually. Collected waste is recycled into plastic landscape timbers for building retaining walls or replacing deteriorated railroad ties. For purchasing details, contact the Kemper Center for Home Gardening at (314) 577-9441, or visit the Garden's website: www.mobot.org/hort/activ/plasticpots.shtml

Collection dates: Saturdays and Sundays, May 19 through June 24, 9 a.m. to 4 p.m. Horticultural plastic only. Please empty all soil from containers and remove any metal hangers.

Collection points: Missouri Botanical Garden Monsanto Center parking lot, 4500 Shaw Boulevard. Satellite collection points: Greenscape Gardens, For the Garden by Haefners, Crabapple Cove, Summerwinds at Timber Creek, Schmittels Nursery, Garden Heights Nursery, and the City of Kirkwood Recycling Center.

Sponsored by St. Louis-Jefferson Solid Waste Management District and Monrovia Growers, Inc.

Garden at Large

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

New Wetland Trail provides ease of access to those who stroll… and roll.

Renovated Trail Provides Increased Accessibility

The Wetland Trail at the Shaw Nature Reserve is now wheelchair accessible thanks to a grant from the Federal Highway Administration through the Missouri Department of Natural Resources recreational trails program. The renovated one-mile trail through the wetland has a grade of five percent or less with a surface of compacted crushed limestone, making it easier both to stroll and roll, a boon for those of limited on-foot mobility, as well as people in wheelchairs and those pushing strollers.

The Reserve's Visitor Center, Bascom House area, and parts of the Whitmire Wildflower Garden have been wheelchair accessible for some time. The Wetland Trail was selected due to the popularity of the 32-acre wetland complex, which includes ponds, marshy areas, a wet meadow, and sweeping prairies. Its vernal pools are ideal breeding habitat for amphibians, including silent salamanders and frogs with their far-reaching chorus. A trail that meanders close to some of the smaller pools and a 310-foot boardwalk that curves out over part of the largest of the wetland area's eight pools offer opportunities to observe wetland plants and animals more closely.

Ride the Wilderness Wagon

Saturday and Sunday, May–June

All aboard! This narrated wagon ride travels a three-mile loop with stops at the Maritz Trail House and wetland. A great way to shorten the hike to the river or wetland, especially for non-hikers or visitors with small children. The Wilderness Wagon departs (weather permitting) from the Visitor Center on the hour at 1, 2 and 3 p.m. $1 per person in addition to admission.

Spring Wildflower Sale

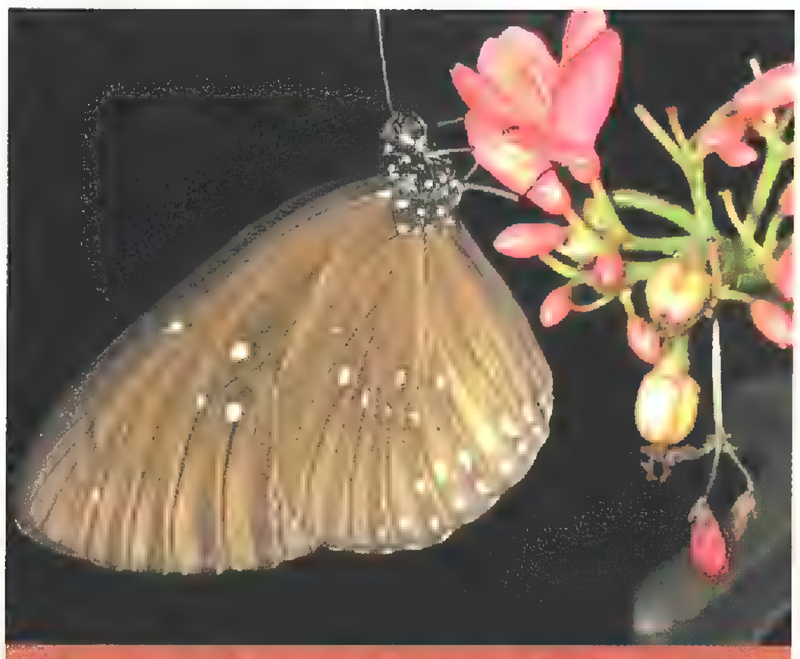
Saturday, May 12, 9 a.m. to 4 p.m.

Select from a huge variety of hardy native wildflowers, grasses, trees, and shrubs for home landscaping in sun or shade, including many that attract birds and butterflies. Garden members enjoy early-bird privileges with a special preview sale on Friday, May 11, from 4 to 7:30 p.m.

Missouri's Outdoor Women

Friday, June 8, 6 p.m. to
Sunday, June 10, noon

Missouri's Outdoor Women offers the opportunity to experience three outdoor skills from a variety of choices, including Canoeing, Fly Fishing, Landscaping with Native Plants, and more. This event, co-sponsored by the Missouri Department of Conservation, is held at the Reserve's Dana Brown Overnight Education Center. Ages 14–17 must be accompanied by an adult. $160 ($150 for Garden members). For more information, call (636) 451-3512 ext. 6001 or visit www.shawnature.org.



Butterfly of the Month

Common Crow
Euploea modesta

Range: Southeast Asia
Host plants: *Ficus* species, among others
There are many butterflies that are considered distasteful, including the common crow which stores bitter chemicals from the plants it eats as a caterpillar. Males have large yellow scent scales they can deploy when needed to identify themselves to potential mates.

Butterfly House

15193 Olive Blvd., Chesterfield, MO 63017
(636) 530-0076 • www.butterflyhouse.org

BUZZ
May 12 How Insects Survive Underwater
June 9 Light Up The Night: Fireflies
A monthly series of 90-minute classes, workshops, and events for young scientists ages 8 to 12, with a parent or guardian. Classes take place on Saturdays and begin at 10 a.m. $18 ($13 for Garden members). Class size is limited, so register today at (636) 530-0076, ext. 10.

Mother's Day Brunch
Sunday, May 13,
seatings at 11 a.m. and 1 p.m.
Enjoy a buffet under the pavilion on the Emerson Lakeside Terrace. Adults (ages 13 and older): $32.95. Children (ages 4–12): $17.95. Children (ages 3 and younger): free. Includes gratuity and admission. Call (636) 733-2339 to reserve.

Father's Day Splash & Spray
Sunday, June 17, 10 a.m. to 2 p.m.
Challenge Dad to see who can stay driest. Come dressed to get wet if you like! All new games include "Squeeze Play," "Ice Bling," "Lily Pad Hop," and "On the Rocks." Activities and crafts included with Butterfly House admission. Food available for purchase.

Sixed-Legged Survivors
June 18 through 22, 8:30 a.m. to noon
Could you survive the insect life? What would you do to escape from predators or avoid parasites? How would you find food, water, and shelter? Explore how insects survive at Butterfly House camp. Class maximum of 20 children. $100 ($80 for Garden members). To register, please call (636) 530-0076, ext. 13.

Save the Date: Wing Ding Gala 2007
September 15, 2007
We hope you'll plan to join us for a delightful evening of fine food, great company, and dancing at the Butterfly House. More information to follow in the July/August *Bulletin* or call (314) 577-0291.

EarthWays Center

3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

Growing Green Buildings
The St. Louis skyline is becoming greener, thanks in part to Garden involvement in the U.S. Green Building Council. The USGBC promotes buildings that are environmentally responsible, economically profitable, healthy and attractive places to live and work. Deborah Frank, the Garden's Vice President for Education and Interpretation, helped found the St. Louis Regional Chapter in 2001, when she was director of the EarthWays Center.

St. Louis Chapter membership has doubled over the past year. Monthly programs, often held at the Garden, educate professionals on topics ranging from green building economics to sustainable design for health care facilities.

To inspire greening and track progress, the USGBC uses a rating system, called LEED (Leadership in Environmental and Energy Design). LEED certification is awarded to buildings meeting requirements for energy efficiency, use of materials, and other sustainable practices. Ten local buildings are now LEED-certified and more than 60 projects are currently registered to earn certification.

Recently, 18 St. Louis area building projects, including the Garden's Monsanto Center, received a total of $385,000 to help obtain LEED certification through the LEED Incentive Grant Program, funded by AmerenUE and administered by USGBC-STL.

Participants have green fun at Camp EarthWays.

Camp EarthWays: Young Green Builders
Monday to Friday, June 25 to 29,
9 a.m. to 3 p.m.
There's still time to join the coolest, greenest camp in town! Students entering grades 5–8 can design their Green Dream Home, tour green sites around St. Louis, and learn from local green building leaders. For more information, call (314) 577-0220.

Opened to the public in 1859, the Missouri Botanical Garden is today the oldest botanical garden in continuous operation in the U.S. and a National Historic Landmark. In his 1889 will and testament, founder Henry Shaw established the Garden as a Missouri charitable trust operated by a board of trustees to be maintained "for all time" for the public benefit. Since its inception, the Garden has been dedicated to a three-fold purpose: Education, Horticulture, and Research. This is the third in a series of overview articles highlighting each of these areas. Articles on Research & Conservation and Horticulture appeared earlier this year.

The Missouri Botanical Garden is a national leader in providing quality science education with the goals of advancing scientific literacy and cultivating connections between people and plants and the environment. Education has been part of the mandate of the Missouri Botanical Garden since its founding.

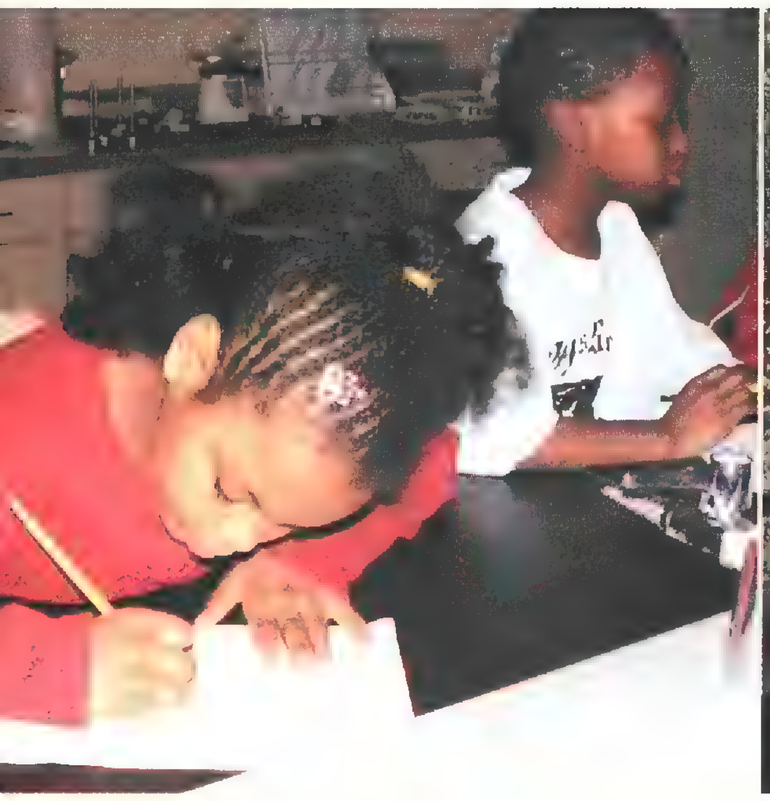
Today, the Garden's Education Division is comprised of 45 staff and 700 volunteers on five campuses under the leadership of Deborah Frank, Vice President of Education and Interpretation. Instruction and inquiry-based learning opportunities are provided for students, teachers, families and children. Horticulture therapy enriches the lives of senior citizens and special populations. Classes and programs are held at schools, in the community, on Garden grounds, and at off-site locations. "We are continually seeking new opportunities and strategies for children, adults, and families to interact with plants and nature," says Frank. "Experiences that provide personal connections to the natural world we believe will inspire environmental stewardship."

School Programs: Enriching the classroom

Often a child's first encounter with the Garden is through a school field trip. Each year over 60,000 students visit the Garden where they discover nature's beauty and are engaged in learning about the importance of plants in their lives and the environment.

For visiting school groups, the Garden offers classes with Garden Instructors as well as guided tours led by trained Garden Docents. Garden educators can also bring the Garden to students in their home classroom through a variety of outstanding and long-term outreach programs. The Garden's ECO-ACT environmental leadership program has been educating high school students in ecology and environmental science for over 25 years, while the Garden Education Compact is the latest Garden program targeting St. Louis Public School students in science and math education.

For teachers, the Garden offers a range of courses and workshops in botany, biology, ecology, environmental studies, and math and science education strategies during both the school year and the summer. The Stupp Teacher Resource Center houses a lending library consisting of educational and instructional resources as well as ready-to-use classroom kits.



photos above by Barbara Addelson, Jessica Brown, Sara Greene, Teresa Mulvihill, Jennifer Smith, and Emily Snider.

Public Programs: Family Fun at the Garden
Recent trends suggest that more and more parents are looking for structured activities for the family at their favorite museums and attractions. The Garden has responded with fun, fitness, and educational programming, both by reservation and for the casual drop-in visitor.

- Strollerobics is an eight-week fitness course for parents and children in strollers.
- Little Sprouts (ages 2–3) and Garden Buds (4–5) are both classes designed to offer parents a special opportunity to explore the natural world with their young one.
- Garden Kids (ages 6–8) inspires children to branch out on their own and explore gardening and nature.
- Great Green Adventures is a new drop-in series that focuses on nature study, nutrition, and exercise, most Saturdays. See page 9 for more information.
- Summer fun and learning in the outdoors are experienced during week-long day camps and overnight adventures for grades 1 through 6.
- Adult Education programs from growing your garden to greening your home are offered in concert with Horticulture for life-long learners.

Interpretation: Learn as You Visit
Volunteers and their interpretation stations are scattered throughout the Garden to engage visitors in Garden highlights. Interpretation stations are packed with hands-on, sensory-based materials and activities to promote a personal connection and a deeper understanding of plants and the Garden. Signage, exhibits, audio tours, backpacks for visitors—all of these interpretive programs are developed in the Education Department. Education runs the Tower Grove House museum, which showcases the history of the Garden and life as it was in founder Henry Shaw's day, and presents programming for the George Washington Carver Garden, to inspire young minds with the works of this famed scientist and educator.

Therapeutic Horticulture: The Power of Plants
The therapeutic benefits of experiencing the natural environment through sight, smell, and touch are widely employed by hospitals, health care facilities, and senior centers through on-site gardens. Horticulture for Health and Well-being, the Garden's therapeutic horticulture program, offers a menu of activities using plants and gardening to promote physical, psychological, and cognitive health and wellness for seniors, hospital patients, and their families as well as special-needs children and adults.

Off-site Locations: Education everywhere
Education is a unifying force for the Garden's family of attractions, which stretches to our four off-site locations.

- The **Sophia M. Sachs Butterfly House**, in Chesterfield, promotes a better understanding and increased awareness of the natural world through interaction with the life cycle of the butterfly and other arthropods.
- The **EarthWays Center**, in midtown, teaches people of all ages about practical ways to conserve natural resources, reduce waste, and prevent pollution—at home, at school, and in the workplace.
- The **Litzsinger Road Ecology Center**, a private facility in Ladue, provides an outdoor laboratory for ecological education, research, and restoration for area schools.
- The **Shaw Nature Reserve**, in Gray Summit, immerses visitors in understanding and appreciating Missouri's diverse ecosystems through native plants, ecological restoration, and nature history.

From the field:

Cordillera del Cóndor

Today, in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever, before we can determine their uses or their role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active and geographically widespread botanical research program in the world. Their work forms the base on which the pyramid of plant science and conservation stands.

Part of the international border between Ecuador and Peru, the Cordillera del Cóndor, or Cóndor mountain range, may well possess the richest flora of any similar-sized area anywhere in the New World. A 1998 treaty brought peace to the region, and since that time, biologists have rushed to study it, including botanists from the Missouri Botanical Garden.

The area is one of the most poorly known in the tropics, and biologists continually discover species new to science in its exceptionally rich forests. Based in part on the results of Garden researchers working in the region, the Ministry of Environment of Ecuador designated several areas along the crest of the Cordillera del Cóndor as ecological reserves last year. However, the slopes, which feature an array of different species from the crest, are not protected. They include areas owned by cattle ranchers, gold and copper mining companies, and local indigenous communities.

The Garden's program in the Cordillera del Cóndor region includes not only botanical inventories with colleagues from the National Herbarium of Ecuador and the indigenous Shuar Federation, but also field courses for Ecuadorian students to improve conservation management capacity.

The **Garden's Curator-in-residence in Ecuador, David Neill**, reports from Ecuador on the past year's exciting developments. "We are collaborating with Ecuadorian government agencies, local organizations, and landowners to seek ways to protect the unique plant species throughout the Cordillera del Cóndor region."

The Taylor Fund for Ecological Research—established by the gift of Jack Taylor, founder of Enterprise Rent-A-Car—allows the Garden to continue pursuit of knowledge of plant diversity in countries all over the world and to work with these countries to conserve and develop plant resources sustainably before it's too late.

Left: "During the past 18 months, we included four field courses for Ecuadorian and Peruvian students in dendrology, the identification of trees. The courses also provided training in tropical forest ecology, conservation, restoration, and the economic history of the most important Amazonian and Andean trees."

"A total of 170 students and their instructors established six permanent forest inventory plots on the sandstone plateaux, called tepuis, *throughout the northern, central, and southern portions of the Cordillera del Cóndor. The group measured, marked, and identified each tree in the plots and collected specimens from each species."*

Top: "We found a tree in flower that we had never seen before in 22 years of research in Ecuador. Initially, the tree had us stumped. We had no idea of either its genus or its botanical family. Back in the city, we determined that the unknown tree was a species of Hortia *in the citrus family. The genus* Hortia *had never before been reported in Ecuador or Peru."*

Bottom: "The sandstone formation that underlies the tepuis *of the Cordillera del Cóndor is composed of nearly pure crystalline silica. In some places in the Cóndor, the rock is being mined for manufacture of glass, a process that destroys the unique vegetation of the* tepui *with its distinctive species."*

"Using Geographic Information System technology and satellite imagery along with fieldwork, we have mapped the sandstone areas of the Cordillera del Cóndor and are working with the Ministry of Environment of Ecuador and several Ecuadorian non-governmental organizations to develop a comprehensive conservation plan for the entire Cóndor region."

Corporate Partner Principal Profile: Commerce Bank

The Corporate Partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater St. Louis metropolitan region.

Corporate Partners at the Principal level offer support and leadership at the highest level, and the Garden is recognizing their contributions in a series of Bulletin *profiles.*

Commerce Bank traces its roots back to the Kansas City Savings Association of 1865. Today, 142 years later, Commerce Bank remains a Missouri-based company with headquarters in both Kansas City and St. Louis, over $15.2 billion in assets, and a sustained commitment to the communities where it does business.

Since the program first began in 1998, Commerce Bank has been a Corporate Partner of the Missouri Botanical Garden. Commerce and the foundations for which it serves as trustee are also among the top contributors in the Garden's history.

Annual operating gifts from Commerce Bank or associated foundations have funded special initiatives, like the growth and expansion of the Plants of Merit™ program to identify outstanding plants for the lower Midwest, and the Illustrated Garden exhibit, a collaboration with the Saint Louis Art Museum.

Capital projects: Commerce Bank, in partnership with the William T. Kemper Foundation for which it serves as trustee, built the William T. Kemper Center for Home Gardening, the largest non-profit gardening information center of its kind in the nation. The Commerce Bank Center for Science Education, which opened in 2003, is home to the Garden's innovative education and professional development programs, which impact 128,000 students and over 4,200 teachers each year.

Leadership was demonstrated by President and CEO of Commerce Bancshares, David W. Kemper, who chaired the recently completed *Stewards of the Earth* campaign, the largest capital campaign in the history of the Garden, which raised over $76 million, exceeding the original goal by $5 million. David Kemper has long served as a Trustee of the Garden and was Chairman of the Board from 1998 to 2000.

"Commerce Bank's commitment to the Garden is at the top of the list," says Garden President Dr. Peter H. Raven. "We are grateful for their continued support."

For information about the Corporate Partners program, call (314) 577-9495.

photo by Erin Whitson

Chihuly Donations

The Missouri Botanical Garden thanks its many members who supported the special fundraising initiative to acquire these Chihuly pieces.

Walla Walla Onions, 2006

Gifts of $1,000 and above are listed.

Major Benefactor
United Food and Produce Company, Mr. and Mrs. Charles P. Gallagher

Benefactors
Mr. and Mrs. Nicholas L. Reding
Mr. and Mrs. William R. Orthwein, Jr.

Patrons
BSI Constructors, Mr. and Mrs. Joseph F. Shaughnessy
Mr. and Mrs. Robert E. Kresko
Mr. and Mrs. Oliver M. Langenberg
Mr. and Mrs. Charles W. Oertli
Estate of Marc C. Saphian
Mr. Barrett A. Toan and Ms. Polly O'Brien
Mr. and Mrs. Blanton Whitmire

Sponsors
Mr. and Mrs. Brian L. Keck
Mr. and Mrs. Jefferson L. Miller
Mr. and Mrs. Mark H. Zorensky

Friends
Mr. William R. Boyle
Mr. and Mrs. Clinton W. Lane
Mr. and Mrs. William C. Rusnack
Mr. and Mrs. Walter G. Stern

Associates
Dr. and Mrs. Walter F. Ballinger II
Mr. and Mrs. Clarence C. Barksdale
Mr. and Mrs. James G. Berges
Mr. and Mrs. John Biggs
Mr. and Mrs. John C. Brereton
Mrs. Walter F. Brissenden
Mrs. Connie Buechele
Ms. Marguerite L. Burns
Dr. and Mrs. Ronald D. Carter
Mr. and Mrs. David Charak II
Mr. and Mrs. Bert D. Condie III
Mrs. Jean L. Crowder
Mr. Gregory G. Evans
Mr. and Mrs. David C. Farrell
Dr. and Mrs. A. N. Filippello
Dr. and Mrs. William C. Finnie
Mr. and Mrs. Sam Fox
Mrs. Karen Hagood
Mrs. Dorothy J. Heagney
Mr. and Mrs. Richard C. Holton
Mr. and Mrs. Andrew Hoyne
Mr. and Mrs. Edward W. Jastrem
Dr. and Mrs. Ernest G. Jaworski
Mr. and Mrs. John D. Kapeller
Dr. and Mrs. W. R. Konneker
Mr. and Mrs. Ralph Korte
Mr. and Mrs. Kenneth Kranzberg
Mr. and Mrs. Lawrence E. Langsam
Mr. and Mrs. E. Desmond Lee, Jr
Mr. and Mrs. Steven F. Leer
Lucy L. Lopata
Mr. and Mrs. David Morley
Mrs. Anna L. Murphy
Mr. and Mrs. Stephen C. Murphy
Dr. and Mrs. Samuel L. Nussbaum
Dr. Ralph Olliges, Jr.
Mrs. Audrey W. Otto
Mr. and Mrs. Rayond W. Peters II
Mrs. Charles P. Pettus, Jr.
Mr. R. Duane Reed and Mr. Glenn Scrivner
Mr. and Mrs. Gary Rust
Mr. Robert Sager
Dr. and Mrs. William F. Sasser
Mr. and Mrs. James Schneithorst
Mr. and Mrs. Robert N. Schulte
Ms. Su-Ellen Viscuso Serkes
Mr. and Mrs. James Shekelton
Mr. and Mrs. Charles Sheppard
Dr. and Mrs. William K. Y. Tao
Dr. and Mrs. George E. Thoma
Mr. and Mrs. Eugene M. Toombs
Mr. and Mrs. John K. Wallace, Jr.
Mr. and Mrs. Eric R. Weidmann
Mei Chen Welland

Sunset Herons, 2003

Major Benefactor
Peters Family Charitable Fund

photo by Perry Rischel

Tributes

January/February 2007

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-9500. You can also make a tribute gift online at our website, www.mobot.org.

In Honor of

Mrs. Marilyn Alton
Mr. and Mrs. Jack D. Minner

Mrs. Carol Armstrong
Mr. and Mrs. Richard C. Dunn

Mr. and Mrs. Bruce Beckmann
Mrs. Cleo J. Heinrich

Mr. Gregory J. Cadice
Leslie and Glen Holt

Ms. Melissa H. Chamberlain
Mr. and Mrs. Walter G. Stern

Mr. Jason A. Delaney
Leslie and Glen Holt

Ms. Skippy Dennis
Ms. Valerie Dennis

Mrs. Margaret D. Di Leo
Mrs. Nadine S. Mahe

Mr. and Mrs. John M. Drescher, Jr.
Mr. and Mrs. Leo A. Drey

Ellen and Henry Dubinsky
Mr. and Mrs. David W. Terris

Mr. Daniel L. Gravens
Mr. and Mrs. Kevin E. Hogarty

Mrs. Dorothy Hannon
Mrs. Ellen Ross

Mrs. Jacque Hudgens
Mr. and Mrs. Bill Meeks

Ms. Evelyn Hunt
Leslie and Glen Holt

Mrs. Maria S. Kinsella
Mr. and Mrs. Joseph Kinsella

Ms. Nancy Knight
Mr. and Mrs. Charles W. Long

Mrs. Helen Krantz
Mr. and Mrs. Barry Krantz

Mrs. Pat Loso
Dr. and Mrs. Joseph Feder

Mrs. Melissa Ludwa
Mr. Christopher Ludwa

Mrs. Donita Obermann
Ms. Vela M. Ryle

Mrs. Linda O'Hara
Mr. and Mrs. Don L. Wolfsberger

Mrs. Patricia G. Owens
Mrs. Ellen Feinstein

Mr. and Mrs. Richard B. Perry
Ms. Ellen S. Becker
Dr. and Mrs. Neil L. Gallagher
Mr. and Mrs. Jim Rehg

Mr. Nicholas L. Reding
Meredith Corporation

Mr. and Mrs. Walter D. Schmitz
Mrs. Sarene T. De Woskin

Sandy Smiljanich and Jan McGah
Mr. and Mrs. Harold M. Pourchot, Jr.

Mrs. Harriott Smith
Val and Todd Terry

Mrs. Christine Strecker
Nick, Elisha, and Josephine Strecker
Aaron, Sheila, Julia, Grace, and Chloe Strecker

Mr. and Mrs. Herbert M. Talcoff
Dr. and Mrs. Marvin Rennard

In Memory of

Dr. Grace Bergner Abrams
Mr. and Mrs. Barry Krantz

Mrs. Edna M. Arnin
Mr. Gerald Birenbaum
Mr. and Mrs. Dan E. Cocos
Mrs. Nyla G. Hensley
Luhr Bros. Shop Employees
Dr. Larry Lusch
Ms. Shari Matson
Progress South Staff
Mr. and Mrs. Galen Riebeling
Mr. Glenn J. Riebeling
Mr. Alex Tripamer

Mr. Morris I. Askuvich
Ms. Tobi E. Don

Mrs. Trimble Hoblitzelle Augur
Drs. Peter and Patricia Raven

Mr. Ted Bates
Mr. and Mrs. J. Mark Lashly

Mr. Charlie Baumann
Mr. and Mrs. David E. Morgan

Mrs. Virginia Bilhorn
Mr. and Mrs. Jerry Gulyes
Ms. Gloria Hamman
Mrs. Mary S. Knickmeyer and Mr. W.W. Allen
Mr. and Mrs. Myrl K. Line

Mr. Marvin Blum
Mr. and Mrs. Rob Weintraub

Mrs. DeVera E. Blumoff
Mr. and Mrs. Walter G. Stern

Mr. Harlan Brown
Mr. and Mrs. William B. Eiseman, Jr.

Mr. Steve Carroll
Mr. and Mrs. Gerard M. Curran

Mrs. Jane Smallridge Chaney
Mrs. Carolyn B. Pratt

Mr. John E. Conrades
Mrs. William E. Barnes

Mr. James Ellis Crawford, Jr.
Mr. and Mrs. Glenn J. Markwort
Mr. R. Turner Peters

Mrs. Jane Metcalfe Culver
Alma Davis
Tish and Mike Murphy

Mr. and Mrs. Hugo H. Davis
Mr. and Mrs. Charles W. Kehoe

Mrs. Myrtle Davis
Mr. and Mrs. Robert J. Schwartz

Mrs. Arline Del Gaudio
Mrs. Marian R. Dean

Mr. Vaughan 'Bing' Devine
Mrs. Jean L. Crowder
Mr. and Mrs. Glenn J. Markwort
Su-Ellen Ladies

Mrs. Bert Diehl
Mrs. Janet Roper

Robert Dodge
Mr. and Mrs. Andy Belden

Jillian Edwards
Mr. Dennis Boemker

Mrs. Grace (Betty) Egendoerfer
Mr. and Mrs. Fred Blasberg
Ms. Patricia Ann Buckley
Dr. Thomas B. Ferguson
Miss Heide M. Pusztay
Dr. Charles L. Roper

Mrs. Genevieve R. Entwistle
Mrs. Erika Rohrbach and Ms. Cirri Rohrbach

Mary Margaret Estes
Mrs. Rebecca Huffman

Nesta and Joe Ewan
Dr. and Mrs. Leonard Thien

Mrs. Aileen S. Raven Fish
Mr. David Band
Mr. and Mrs. Mark Bernstien
DBI International Corporation
Mr. and Mrs. David Duitch
Ms. Sally Epstein
Ms. Pamela Frager
Tom Green
Mr. and Mrs. Arnold Levin
Cheri and Mike Metzler and Family
Mr. and Mrs. Richard Numrich
Mr. and Mrs. Eugene W. Staehle
Mr. and Mrs. Richard Stogdill

Mr. Charles Ford
Mrs. Linda Wolf

Mrs. Susan A. Foulk
Mr. Dan Foulk

Mrs. Alice G. Frink
Mr. and Mrs. Harry Fisher

Ms. Ann T. Gardiner
Dr. and Mrs. William G. Juergens

Dr. Bernard Garfinkel
Jack and Dorothy Hitt

Mr. Franklin C. Gilbert
Mrs. Mary E. Wagner

Mr. Richard E. Glass
Mrs. Francine M. Glass

Mrs. Louise E. Golman
Mr. and Mrs. Craig W. Bartells

Mrs. Ruby H. Haney
Ms. Theresa Ehlen

Mr. Wilfred Hester
Ms. Carole Hemann

Mr. Mark Leo Hines
Mrs. Jacqueline E. Kriegshauser

Mr. Albert D. Hoehn
Mrs. Joyce Mundy

Mrs. Joyce Hoffman
Beverly Blitz and Leonard Karoll

Mrs. Patricia Holt
Mr. and Mrs. Lawrence G. Goldfarb

Mr. Brent Hyde
June Wright
Brian and Kara Simpson

Sophia M. Sachs Butterfly House Pavers and Tributes

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in January/February 2007

Tributes

In Memory of

Mrs. Anna M. Meine
Anonymous
Butterfly House
Mark and Jessica Deering
Mr. and Mrs. Gus Denton
Mr. and Mrs. Marvin S. Eversole
Mr. and Mrs. Donald J. Feldmeier
Ms. Jackie Juras
Mr. and Mrs. Rusty Lee
Mr. and Mrs. Donald R. Luttmann
Ms. Geraldine H. Murphy
Mr. and Mrs. George F. Niehaus
Mr. and Mrs. David C. Ruckman
Ms. Genevieve T. Rush
Mrs. Robert E. Schilling
Ms. Carmen Schulze
Mrs. Onieta Schulze
Ms. Nancy Williams

Abbey Raubuck
Mr. Michael Auld

Pavers

Charlie Berns
Teresa Bruno
Karen Gibson
Christy Ross

Aleric J. Boon
Friends at CPAP

Pat Miller
Friends at Dierbergs Central Design

Eric Moody
Deloris Boehme
Mike, Susan, and Megan McGinnes
Bill and Lenore Moody
Albert and Bonnie Walton

Harrison E. Moss
Bud and Sherry Larson
Andy and Beth Rieger

Beverly Thiele
Edward Thiele

Darlene Hartfield Wagen
Thomas D. Wagen, Sr.

Mr. Stanley Jamroz
Washington University School of Medicine
Department of Anesthesiology

Mrs. Rosaline Kahan
Ms. Vivien T. Gardner

Mrs. Helen L. Kettler
Sylvia Zeedan and Helen Zeedan

Mrs. Frank E. Kipp
Mrs. Janice B. Pocock

Mrs. Lee Klaski
Mr. and Mrs. Thomas Bruno
Marie Sieker and Rod Matthews

Mrs. Ruth Koester
Ms. E. Joan Cowdell

Kara Kopplin's Grandmother
Ms. Brigid O'Brien

Mrs. Margaret Kresyman
Mr. and Mrs. Earl L. Grothman

Ms. Suzanne Marie Kristanich
Ms. Celia Bouchard

Mrs. Mary Lammers
Dr. and Mrs. Harry T. Duffy

Mrs. Doris J. Latta
Mr. and Mrs. Thomas S. Lambert

Mr. Robert Leach
Geiser Family

Mrs. Joan Louise Long
Mr. and Mrs. Stephen Porter
Ms. Evelyn Tullos

Mrs. Floy Lyn Maiscott
Ms. Karen M. Janek

Ms. Muriel Jean Marks
Mid-America Regional Lily Society

Jean Preston Martin
Mr. and Mrs. Charles H. Garrison

Miss Theresia Mizerny
Ms. Marion L. Schieber

Professor Thomas Moisan
Aparna W. Higgins

Mr. Eric G. Moll
Ms. Judy Echelmeyer

Lucinda and Paul Nuss
Colleen Potratz

Mr. Charles Ortman
Ms. Judith Schweiger

Mrs. Marlene F. Poger
Ms. Martha Gersten
Ms. Jackie Juras
Missouri Botanical Garden Docents
Mr. and Mrs. Howard Port

Mrs. Lurene Pyles
Mrs. Janice J. Rumfelt

Mr. Robert A. Ravensberg
Mrs. Janet M. Johnston

Mr. Fred J. Risberg
Dr. and Mrs. Harry T. Duffy

Mr. Carl F. Ritchie
Ms. Donna Eubanks
Mr. and Mrs. Manuel S. Sherberg

Mrs. Ruth Robson
Dr. and Mrs. Robert Rothenberg

Mr. John Roby
Mrs. Helen M. Havird

Mrs. Dorothy Roedig
Mr. and Mrs. William C. Blasberg

Mrs. Gail Roper
Ms. Sarah Bakewell
Ms. Laura Beffa
Mr. and Mrs. William C. Blasberg
CTICU intensivists, Barnes-Jewish Hospital
Ms. Karen Hoops
Mrs. Loraine M. Janssen
Dr. and Mrs. William G. Juergens
Mr. and Mrs. Kenneth Kranzberg
Ms. Barbara Perry Lawton
Dr. and Mrs. John C. Martz
Mr. Bryan Meyers and Ms. Julie Usher
Mrs. Tatie Reese
Ms. Nancy A. Sachar
Dr. and Mrs. William F. Sasser
Mr. and Mrs. George W. Stearns
Washington University School of Medicine, Department of Surgery

Mr. George Rothbacher
Mr. and Mrs. Gary J. Plamp

Dr. Ernest T. Rouse, Jr.
Mrs. Alma Davis

Mr. John Scherr
Mr. and Mrs. Donald R. Hemmer

Mrs. Betty Russell Schlapp
Louise Woodruff Angst
Louise, John, and Mariel VanLandingham

Mr. Frank Schmugai, Jr.
Mr. and Mrs. Clarence J. Moehl

Mrs. Marjie Schneider
Dr. and Mrs. Seth A. Tilzer

Mrs. Dorle Schwarz
Dr. and Mrs. Joseph Schraibman

Mrs. Dee Sinnard
Mr. and Mrs. Robert S. Grommet

Mrs. Kay Chadwick Smith
Miss Wilma M. Metzger

Mr. Wayne Steeves
Ms. Barbara Baker
Ms. Sharon Cahill
Mr. Peter Petrisko

Mr. Charles F. Stephens
Mrs. Herbert M. Wilson, Jr.

Mrs. Joyce Marlene Suttle
Mr. and Mrs. Charles P. Reay

Mrs. Melba A. Sweets
Ms. Deliana Garcia
Mr. Malcolm Greenstein
Ms. Ellen Sweets

Mr. James P. Sweney
Gregory Brough and Deborah Bloomer

Mrs. Anne L. Tarleau
Mr. and Mrs. Kenneth Kranzberg

Mr. Edward Turner
Mr. and Mrs. Kenneth A. Marshall

Mrs. Wilma Vaughn
Mr. and Mrs. John F. McDonnell

Mrs. Ann E. Walsh
Mrs. Mary Bard
Mr. and Mrs. Phil Beckley
Mr. Ed Bushmeyer and Ms. Louise Tonkovich
Mr. and Mrs. James A. Kummer
Mr. and Mrs. Joseph Sanfilippo
Mr. and Mrs. Alan Visintainer
Mr. Melvin Weinberg
Mr. and Mrs. Jim Young

Mrs. Mary Emily Ward
Mr. and Mrs. Charles P. Reay

Mr. S.D. Warford
Ms. Freda Fuchs

photo by Laura Mel . . .

Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information. Or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Judge Harry L. Weier
Mr. and Mrs. David D. Bridwell

Marie Luise Wessling
Dr. Rosalyn Schultz and Mr. Giuseppe Pirone

Mrs. Georgia H. Wiegand
Mr. and Mrs. Philip B. Cady, Jr.
Mr. and Mrs. Jim Eckhoff
Mr. Lee Kincaid
Mrs. Janet Lewis
Ms. Judith R. Stamm
Ms. Kathleen M. Stamm
Ms. Linda Weiner

Mr. Johnnie Williams
Mr. and Mrs. Rodger S. Izzo

Jennifer Wisdom
Lisa K. Ovens, M.D.

Mrs. Jackie Yahl
Mr. and Mrs. David Hartmann

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from January/February 2007.

Bronze Signature Bricks

Susan A. Foulk
Mr. and Mrs. Daniel G. Foulk

Clare Hotze McElroy
Mr. and Mrs. Gary Lucas

Honorable Charles A. Olson
Mr. Andrew Schiefelbein

Gail Roper
Washington University School of Medicine Cardiothoracic Surgery

Engraved Clay Bricks

Edna M. Arnin
Mr. Gerald Birenbaum
Mr. and Mrs. Dan E. Cocos
Mrs. Nyla G. Hensley
Luhr Bros. Shop Employees
Dr. Larry Lusch
Ms. Shari Matson
Progress South Staff
Mr. and Mrs. Galen Riebeling
Mr. Glenn J. Riebeling
Mr. Alex Tripamer

Bill, Wendy, Mike, and Sarah
Mr. and Mrs. Bill K. Anderson

Robert W. Boyd and Helen M. Boyd
Ms. Helene E. Jundt

Wayne and Judy Botz
Judy and Carolyn Botz

Frances May Edwards
Mr. Jeffrey Bean
Mr. Robert L. Boschert
Ms. Rita Long
Mr. Kevin R. Palubiak
Mr. David A. Politte
Premier Appraisal Group

Ann Ellsworth Jones
Mr. Allen Jones

KQMC
Mr. Shawn Connolly

Douglas Eric Lundstrom
Mrs. Carol L. Lundstrom

Jean and H. B. Ohmer Family
Mr. and Mrs. Paul Muser

Gail Roper
Ms. Julie Usher and Mr. Bryan Meyers

Missouri Botanical Garden

1-800-642-8842 • 4344 Shaw Blvd. • St. Louis, MO 63110 • www.mobot.org

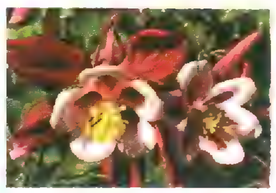
What's in bloom?

download the podcast at www.gardeninghelp.org

Peony

Rose

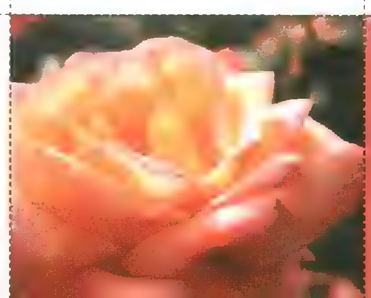
Iris


Columbine

Bleeding Heart

May 2007

average temperature: 66.55
average monthly precipitation: 4.11 in.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01 ■ Spring classes, tours, preschool programs, and this summer's Camp MBG. Register now and receive your members' discount at www.mobot.org.	02	03 **CHAPUNGU** 5 to 9 p.m., $ ■ St. Louis Storytelling Festival. www.umsl.edu/storytelling	04 ■ St. Louis Storytelling Festival. www.umsl.edu/storytelling ■ Flower Festival. OS. See p 6.	05 ** **Members' Day: Children's Gardening,** See p 8. ■ New! Nature Explore Classroom opens. See p 9. ■ Flower Festival. OS. See p 6. ■ Wilderness Wagon, SNR, $
06 ** **Member Orientation,** noon. See p 8. ■ Flower Festival. OS. See p 6. ■ Wilderness Wagon, SNR, $	07	08	09 	10 **CHAPUNGU** 5 to 9 p.m., $ ◂ Annual Horticulture Plant Sale, 9 a.m. to 4 p.m. See p 6.	11	12 ■ Adventures 11 a.m. to 2 p.m. ■ Dahlia Society sale and Rose Society mini-sale ■ BUZZ, 10 a.m. BH. $☎ ■ Spring Wildflower Sale, SNR
Mother's Day 13 ■ Mother's Day brunch at Sassafras, $☎ ■ Dahlia Society sale and Rose Society mini-sale ■ Mother's Day brunch, BH, $☎	14	15	16	17 **CHAPUNGU** 5 to 9 p.m., $	18 ■ Trailnet's Bike to Work Day. Free snacks at the Garden, 6:30 to 9 a.m.	19 ■ Chinese Culture Days. See p 6. $ ■ Adventures 11 a.m. to 2 p.m., SNR ■ Plastic Pot Recycling, See p 13. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.
20 ▸Chinese Culture Days. See p 6. $ ■ Plastic Pot Recycling, See p 13. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.		22		24 **CHAPUNGU** 5 to 9 p.m., $ ■ Garden Party benefit at Eckert's Garden Center. See p 6.	25	26 ■ Adventures 11 a.m. to 2 p.m. ■ Morris Ale. See p 6. ■ Horticultural Society and Hosta sale and Bonsai show and sale ■ Plastic Pot Recycling, See p 13.
27 ■ Illinois Appreciation Week. See p 6. ■ Bonsai show and sale ■ Plastic Pot Recycling, See p 13.	Memorial Day 28 ■ Illinois Appreciation Week ■ Bonsai Society of Greater St. Louis show and sale	29 ■ Illinois Appreciation Week	30 ▲ **Members' Event: Rose Evening, Brick Donor Evening,** 5:30 to 8 p.m. See p 8. ■ Illinois Appreciation Week ■ Garden open until 8 p.m. ■ Children's Garden free 5 to 7 p.m.	31 **CHAPUNGU** 5 to 9 p.m., $ ■ Illinois Appreciation Week		*Mother's Day brunch* *May 13, Sassafras.* Seatings at 10, 11:30 a.m., and 1 p.m. $34.95 per adult, $11.95 per child age 12 and under (tax not included). Includes Garden admission. Reservations required (314) 577-9539.

June 2007

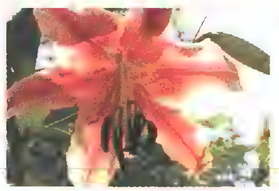
average temperature: 75.6
average monthly precipitation: 3.76 in.

What's in bloom? download the podcast at www.gardeninghelp.org

Coneflower

Daisy

Clematis


Lily

Stokes Aster

All events take place at the Garden unless otherwise noted.

BH = Butterfly House, (636) 530-0076
EWC = EarthWays Center, (314) 577-0220
GGS = Garden Gate Shop, (314) 577-5137
LS = Little Shop Around the Corner, (314) 577-0891
OS = off site, other location
SNR = Shaw Nature Reserve, (636) 451-3512

** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required
■ Guided walking tours, 1 p.m. daily
■ Early morning walking, every Wed. and Sat. from 7 a.m.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01 ◀ **Members' Musical Evening, 5:30 to 8:30 p.m. See p. 8. ■ Illinois Appreciation Week. See p 6.	02 ■ Green Green Adventures 11 a.m. to 2 p.m. ■ Illinois Appreciation Week ■ Rock Garden Society sale ■ Plastic Pot Recycling, See p 13.
03 ■ Rose Society show ■ Plastic Pot Recycling, See p 13. ■ Camp BUGaloo, BH. $☎	04 ■ Camp BUGaloo, BH. $☎	05	06 ◀ Whitaker Music Festival: Jeremy Davenport. See p 7. ■ Children's Garden free 5 to 7 p.m.	07 CHAPUNGU 5 to 9 p.m., $	08 ■ Missouri's Outdoor Women's Weekend, SNR, $☎	09 ■ Green Green Adventures 11 a.m. to 2 p.m. ■ Carnivorous Plant and African Violet shows and sales ■ Plastic Pot Recycling, See p 13. ■ Missouri's Outdoor Women's Weekend, SNR, $☎ ■ BUZZ. BH 10 a.m. $☎
10 ■ African Violet shows and sale ■ Plastic Pot Recycling, See p 13. ■ Camp BUGaloo, BH. $☎ ■ Missouri's Outdoor Women's Weekend, SNR, $☎	11 ■ Camp BUGaloo, BH. $☎	12	13 ■ Whitaker Music Festival: Trio Tres Bien. See p 7. ■ Children's Garden free 5 to 7 p.m.	Flag Day 14 ◀ CHAPUNGU 5 to 9 p.m., $	15	16 ■ Green Green Adventures 11 a.m. to 2 p.m., EWC ** Members' Day: Birding, SNR, 7 to 10 a.m. See p. 8. ■ Lily Society show ■ Plastic Pot Recycling, See p 13. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.
Father's Day 17 ■ Lily Society show ■ Plastic Pot Recycling, See p 13. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m. ■ Father's Day Splash and Spray, BH	18 ■ Six-Legged Survivors, BH, 8:30 a.m. to noon. $☎	19 ■ Tower Grove Auxiliary bus trip to Fulton, 7:45 a.m. See p 8. ■ St. Louis Water Gardening Society plant auction ■ Six-Legged Survivors, BH, 8:30 a.m. to noon. $☎	20 ■ Whitaker Music Festival: Dave Black. See p 7. ■ Children's Garden free 5 to 7 p.m. ■ Six-Legged Survivors, BH, 8:30 a.m. to noon. $☎	21 CHAPUNGU 5 to 9 p.m., $ ■ Six-Legged Survivors, BH, 8:30 a.m. to noon. $☎	22 ■ through August 9 *Succulent Palladiums*, photos by Michael Eastman. ■ Six-Legged Survivors, BH, 8:30 a.m. to noon. $☎	23 ■ Green Green Adventures 11 a.m. to 2 p.m. ■ Daylily Society sale ■ Plastic Pot Recycling, See p 13.
24 ◀ Plastic Pot Recycling, See p 13.	25	26	27 ■ Whitaker Music Festival: Erin Bode. See p 7. ■ Children's Garden free 5 to 7 p.m.	28 CHAPUNGU 5 to 9 p.m., $ ** Members' Day: Tour of Daylily Garden, 11 a.m. See p 8.	29 ■ Larks (also July 6), BH. 10 a.m., $☎	30

Missouri Botanical Garden Library
3 1753 00342 9914

photos by Ian Adams, Lisa Francis, Sarah Greene, Jack Jennings, John Smelzer, Emily Snider, Alan Stentz, Justin Visnesky, Erin Whitson, Kevin Wolf, Diane Wilson, www.mobot.org/gardeninghelp, and courtesy Chapungu Sculpture Park

Contents

News 3
Events 6
Membership 8
Kidstuff 9
Chapungu 10
Gardening 11
Garden at Large 14
Eye on: Education 16
From the field: Ecuador 18
Institutional Advancement 19
Tributes 20
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden	(314) 577-5100
Education	(314) 577-5140
Group Tours	(314) 577-0275
Membership	(314) 577-5118
Institutional Advancement	(314) 577-9500
Hort. Answer Service	(314) 577-5143
Volunteer	(314) 577-5187

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: Courtesy Chapungu Sculpture Park

©2007 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

GARDEN GATE SHOP
(314) 577-5137
9 a.m. to 5:30 p.m. daily.
Members 10% off everyday, 20% off on members days.

LITTLE SHOP AROUND THE CORNER
(314) 577-0891
10 a.m. to 4 p.m. Tues–S
Antiques and collectibles
Donations welcome

sassafras
CATERING ST. LOUIS
(314) 577-0200
Now booking 2007-08 parties and events at the Garden.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166-0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

QK1
.M593
c.2

MISSOURI BOTANICAL GARDEN

bulletin

July/August 2007 Vol. 95, No. 4

CHAPUNGU

nature, man, and myth

From the President...

July 24 is our founder Henry Shaw's birthday. Every year we celebrate with free admission and old-fashioned festivities. This year, I'm struck more than ever by Shaw's prescient vision. From its founding, the Garden was planned not only as a "pleasure garden," but also an institution of science and learning dedicated to "Botany, Horticulture, and allied objects." (Shaw's Will of 1889)

One hundred and forty-eight years later, the Missouri Botanical Garden remains a dual entity. Shaw wrote about the importance of "peaceful enjoyment" of the beauties of nature as a restorative to the human soul, and today, the hundreds of thousands of visitors who walk through our gates each year still find the beautiful landscapes and horticultural collections to satisfy. July and August bring a rainbow of daylilies, sacred lotus in the Japanese Garden, tropical bulbs and blooming shrubs, and the beginnings of our spectacular water lily display. The Garden continues to provide pleasure and relaxation as an oasis in the heart of the city.

Shaw also believed deeply in the importance of science, and it is this great "unseen" Garden—the scientific institution—that has become so very important today. Last issue, I wrote about my involvement in drafting a report on global warming to the United Nations. This issue includes articles on the effects of global warming on our gardens here in St. Louis, as well as on the countries our researchers study.

Missouri Botanical Garden scientists collaborate on work in 35 nations around the globe. Everywhere we work, we are in a race against climate change and human-wrought destruction to document, collect, and preserve as many plant species as possible. We know so little of this broad Earth's plant life—perhaps only one in six species have been discovered and evaluated for potential use as food, fiber, or medicine. Exciting new projects like the Encyclopedia of Life will help share the knowledge we *do* have, and thus facilitate further explorations.

See you at the Garden,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

Board of Trustees

Mr. Nicholas L. Reding, *Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Prof. Sir Peter R. Crane FRS
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. J. B. Eckelkamp, Jr.
Dr. Thomas F. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. John E. Klein
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr.
Carolyn W. Losos
Cheryl Morley
Mr. Jai Nagarkatti
Mr. Scott C. Schnuck
Dr. Henry Gerard Schwartz, Jr.
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

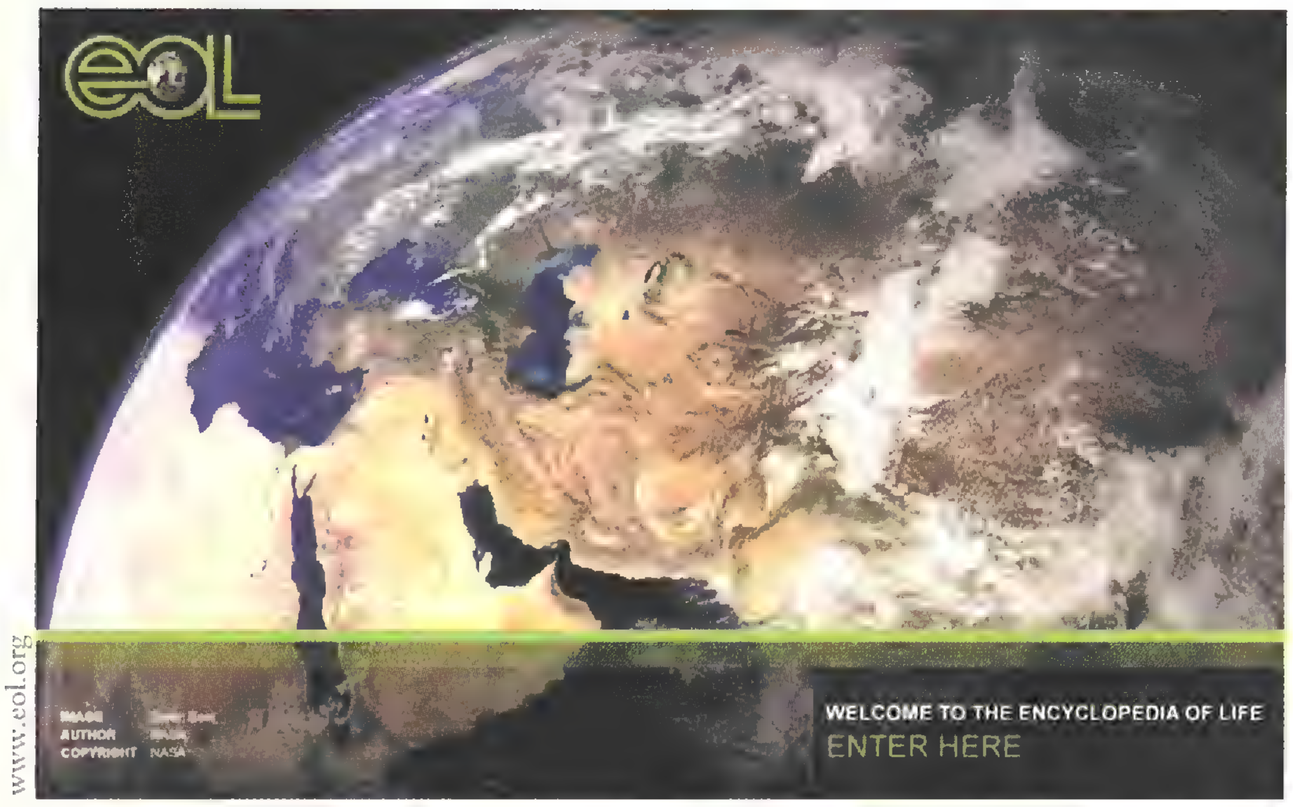
Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Kemath, Jr.
Mr. Ralph Korte
Mr. Robert E. Kresko
June M. Kummer
Mr. E. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn E. Newman
Mrs. Linda O'Hara
Mr. William R. Orthwein, Jr.
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony F. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mr. Jack E. Thomas, Jr.
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Carol Squires, *Chair*



www.eol.org

The Encyclopedia of Life will bring all of natural history into one database on the web.

"The Encyclopedia of Life will provide instant access to the world's best natural history collections and minds."

– Dr. Peter H. Raven

MISSOURI BOTANICAL
JUL 0 3 2007
GARDEN LIBRARY

Encyclopedia of Life Announced

In May, the Missouri Botanical Garden, along with many of the world's leading scientific institutions, announced the launch of the Encyclopedia of Life, an unprecedented global effort to document all life on Earth and make this information available, free to all, on the Internet. Visitors to the website will be able to contribute to the entries as well.

"The Garden is pleased to be a full partner in such an important venture," says Dr. Peter H. Raven, President of the Garden. Along with the Field Museum in Chicago, Harvard University, the Smithsonian Institution, and others, the Missouri Botanical Garden will contribute to the project based on our area of expertise. Of the 1.8 million species to be cataloged, the Garden will provide data for most of the plants known to humans, some 400,000 species, says Dr. Robert Magill, Senior Vice President of plant science and conservation. "For the first time, all of these diverse areas of natural history will be available in one location," says Dr. Magill, "And the style will be accessible to all—from young school children to knowledgeable adults to professional scientists."

The effort is spurred by a $10 million grant from the John D. and Catherine T. MacArthur Foundation and $2.5 million from the Alfred P. Sloan Foundation.

"Anyone, anywhere, at any time, will be able to access this essential biodiversity and conservation information," says Dr. Raven. "The Encyclopedia of Life will provide instant access to the world's best natural history collections and minds."

The Missouri Botanical Garden will also provide a model for the Encyclopedia of Life database construction. For over three years, the Garden has been scanning and cataloging rare botanical literature to create Botanicus.org, one of the world's largest digital libraries, funded by the W.M. Keck Foundation. Workers on the Botanicus project have already scanned more than 600,000 pages of books describing more than 100,000 plant species. The architecture of the Botanicus.org site is being used as a model in the emerging Biodiversity Heritage Library Project, a collaboration of the world's largest natural history libraries, which will form part of the Encyclopedia of Life.

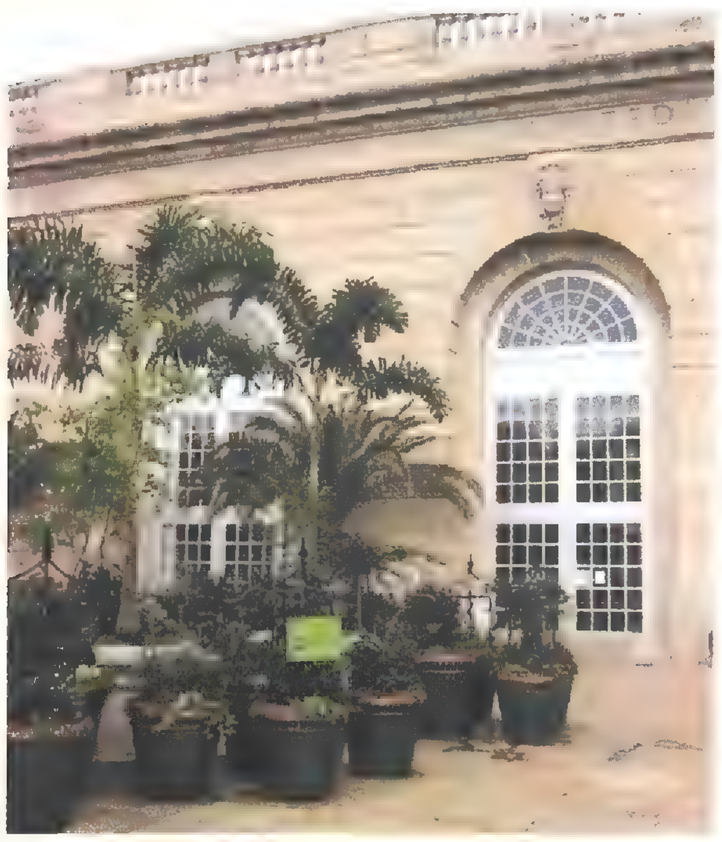


photo by Pat Scace

MBG Exhibits in D.C.

Garden members who visit Washington, D.C. this summer will find a little piece of home on the Mall. This summer, the U.S. Botanic Garden hosts "A Sense of Place: Public Gardens Across America." This summer-long exhibition in our nation's capital features installations by twelve of the nation's premiere botanical gardens, including our own. Garden horticulturists Patricia Scace and June Hutson worked with local suppliers on the Eastern seaboard to create attractive, yet durable container gardens. "We knew we were dependent on the USBG to maintain our installation, so we wanted to be low-maintenance," says Scace. The containers represent aspects of the Garden's mission: *to discover and share knowledge about plants and their environment, in order to preserve and enrich life.*

Missouri Botanical Garden container garden display at the U.S. Botanic Garden in Washington, D.C.

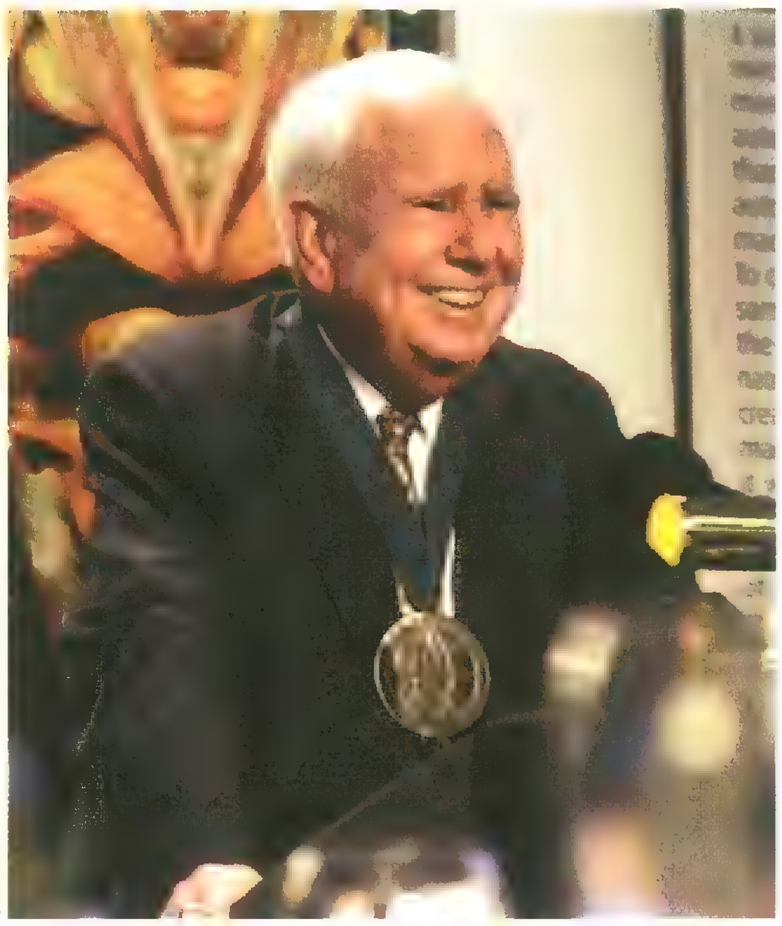


photo courtesy University of Missouri—St. Louis

Dr. Peter H. Raven accepts the award May 4.

World Ecology Award

This May, Garden President Dr. Peter H. Raven was awarded the World Ecology Award by the Whitney R. Harris World Ecology Center at the University of Missouri—St. Louis. The award recognizes an international figure for contributions to solving world environmental and ecology problems. Dr. Raven receives the award for his work as a lead scientist and author on the United Nations Scientific Expert Group's report on global warming effects already witnessed and recommendations for world action to avert potentially devastating future impacts. Past recipients of the award include Harrison Ford, for his work with Conservation International; HRH Charles, the Prince of Wales, for his work on sustainable agriculture and natural farming; and Dr. Jane Goodall.

Saigh Foundation Endows ECO-ACT

The trustees of the Saigh Foundation have announced a generous gift to fully endow the Garden's ECO-ACT program, newly renamed the "Saigh Foundation ECO-ACT Environmental Leadership Program."

Now in its 26th year, ECO-ACT is an award-winning environmental leadership and mentoring program that has brought "ecology in action" to well over 17,500 St. Louis City and County students. High-school juniors and seniors selected for the year-long program participate in summer and school-year training, research, and hands-on projects, including team teaching local fourth graders about environmental awareness, plants, animals, and ecosystems. By endowing the ECO-ACT program, the Saigh Foundation will be supporting education, leadership, and life skills development among area youth, helping to shape better informed and more active citizens who care about our community.

"It is a fitting honor to the legacy of Fred M. Saigh, who felt passionately about the education of our community's youth and the role of the individual in improving society," says Garden President Dr. Peter H. Raven. "The Garden is very grateful for this generous donation."

photo courtesy Lancaster

State Farm representatives present the Garden wtih a donation.

State Farm Supports the Education Compact

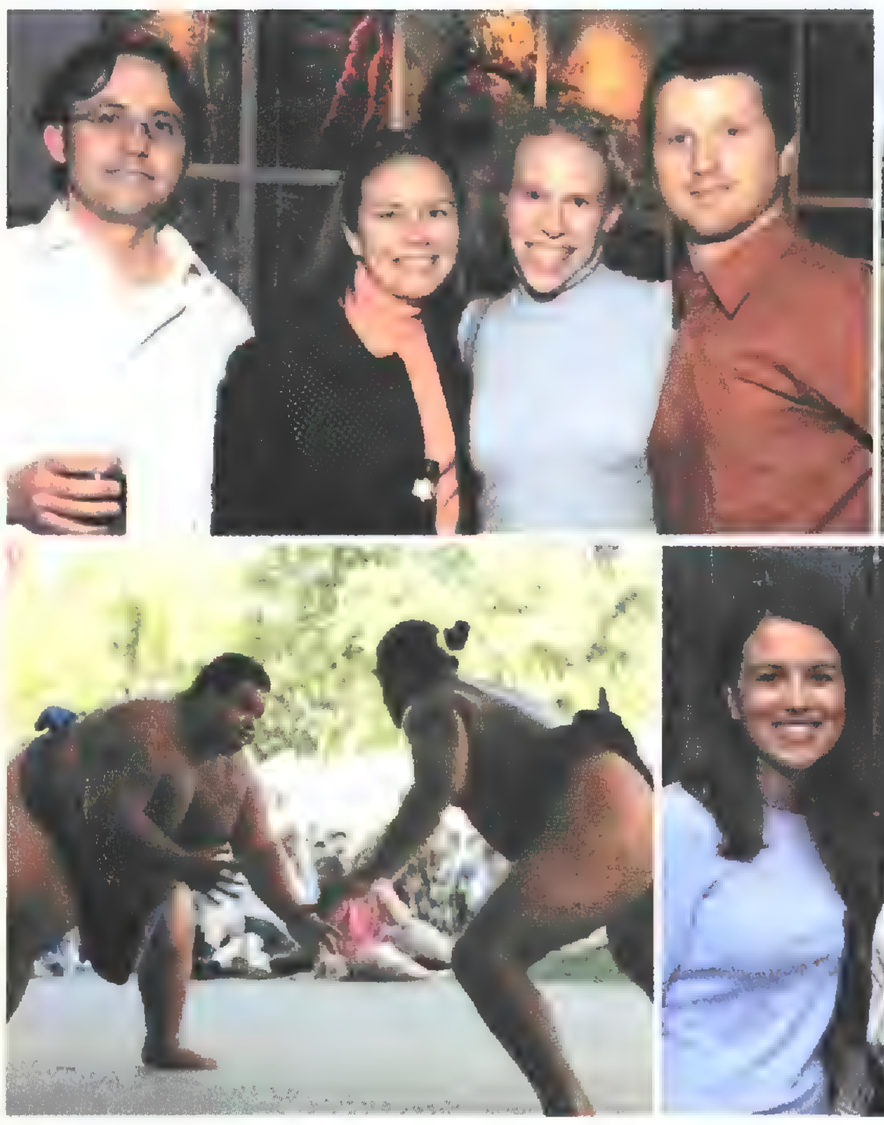
State Farm representatives visited the Garden on April 24 to present the company's donation in support of the Garden Education Compact (GEC), the Garden's partnership with St. Louis Public Schools to enhance math and science learning. State Farm has supported the program since 2004. From left: Lance Jones, GEC instructor; Katherine Kornfeld, Institutional Advancement; Deborah Frank, Vice President of Education; and State Farm representatives Toni Smith and Tia Lindell.

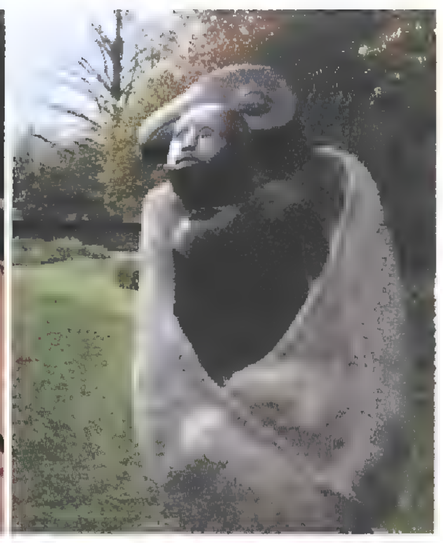
photo by Lisa Wade

Dr. Matthew Albrecht

Welcome Matthew Albrecht

A new assistant curator of conservation biology joined the staff of the Garden's Center for Conservation and Sustainable Development (CCSD) this May. Matthew Albrecht formerly worked as a research scientist for the USDA Forest Service in Ohio. With a Ph.D. in Plant Ecology, Dr. Albrecht brings excellent skills in conservation of rare and endangered plants and ecological restoration. His work at the CCSD will include the development of a region-wide program to bridge the gaps between science, conservation, and governmental agencies. "As a conservation biologist, my fundamental goal is to protect and restore the diversity of life on Earth," says Albrecht. "Through a coordinated, collaborative effort, together we can make progress toward helping the planet."





photos by Cindy Lancaster, Josh Monken, and Ryan Rumberger

Young Friends mix and mingle with Chapungu and sumo.

Young Friends Events

The Missouri Botanical Garden has launched a series of new events and programs for young professionals in their 20s and 30s. For more information, or to participate in these events, e-mail Stephanie.Nolte@mobot.org.

YF: Chapungu and You, Bring a Friend Too!
Tuesday, July 17, 6 to 9 p.m., Spoehrer Plaza
Would you enjoy a special evening of Chapungu, Schlafly beer, and appetizers during a private twilight party at one of St. Louis's most beautiful venues? Bring your friends to the Garden as the sun goes down and the lights come up to illuminate the *Chapungu: Nature, Man and Myth* exhibition. Enjoy artist demonstrations, live music, hors d'oeuvres, and complimentary beverages provided by Schlafly Beer. Tickets are $15 ($20 for non-members). To reserve your spot by July 10, visit www.mobot.org/membership.

YF: Sumo, Sake, and Sushi
Wednesday, August 29, 6:30 to 10 p.m., Kemper Center
A Young Friends exclusive! Last year 37,000 visitors came out to see sumo at the Garden's Japanese Festival. Be one of only 200 at this unique pre-festival event, where you'll meet the sumotori themselves: Eric "Fats" Gaspar and William "Tyler" Hopkins! Enjoy Asian-inspired cuisine and beverages courtesy of Anheuser-Busch and Schnuck Markets, Inc., special entertainment, and strolling through the Japanese Garden. Tickets are $50 ($65 for non-members). Proceeds to benefit Missouri Botanical Garden's educational programs. Reservations are required by August 21. Visit www.mobot.org/membership. For sponsorship information, call (314) 577-9432.

photo by Nick Turland

A turkey struts her stuff beside the Lehmann Building. She appears to reside in the English Woodland Garden.

Gobble in the Garden

A turkey hen has recently been entertaining visitors at the south end of the Garden. She appears to stay in the English Woodland Garden, most likely because the food is good: the area has many mature trees and turkeys love oak mast (acorns). They also love insects, and this year's longer-than-usual grass on the Lehmann lawn helped increase the insect population. As it turns out, turkeys aren't that unusual in the city: "Turkeys are less picky about their habitat than we realized," says wildlife biologist Erin Shank. "There are populations in Forest Park and Calvary Cemetery, for example."

Visitors might encounter our south-end hen during her daily ritual: she hops up on the ledge of the glass Lehmann Building and struts back and forth, fluffing her feathers, and pecking at the mirror. "Wild turkeys do not recognize their own image, so will respond to a reflection as they would an intruding turkey," writes Tom Meister, wildlife biologist at the Missouri Department of Conservation. So enjoy the view, but don't approach. "Keep wildlife wild."

Events

Jeremy Davenport at the June 6, 2007 concert.

Whitaker Music Festival 2007

The 13th annual music series continues for another six weeks this summer. Pack a picnic, or purchase snacks here, and enjoy the show in one of St. Louis's most beautiful venues. Wednesdays at 7:30 p.m., entry free after 5 pm. and free admission to the Doris I. Schnuck Children's Garden 5 to 7 p.m.

July 4	The Flying Mules, *Missouri bluegrass*
July 11	Wil Maring, *acoustic country*
July 18	Baker-McClaren Band, *blues veterans*
July 25	Melissa Neels, *rising blues star*
August 1	Peter Mayer, *world-traveled singer/songwriter*
August 8	Gumbohead, *zydeco and Louisiana funk*

On Wednesday nights for the rest of August (15, 22, 29), the Garden stays open until 8 p.m. with free admission after 5 p.m. for visitors to enjoy a relaxing, quiet evening stroll.

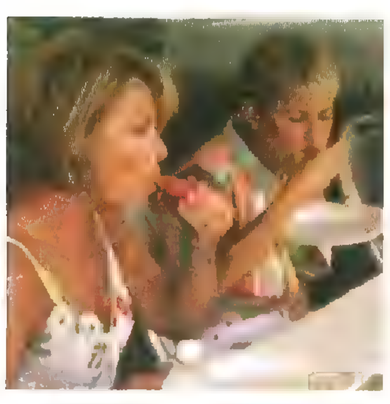
Please: no smoking, no pets, no barbecue grills. In case of rain, check the Garden's website at www.mobot.org or tune into radio station WSIE, 88.7 FM, for cancellation information. Free off-street parking is available in lots at the Shaw-Vandeventer intersection.

The festival is funded by the Whitaker Foundation, which supports St. Louis arts and parks to promote common heritage, celebrate diversity, and encourage vitality within the community.

Happy Birthday, Henry!
Tuesday, July 24, 10 a.m. to 3 p.m.
In honor of Garden founder Henry Shaw's 207th birthday, admission to the Garden is free all day. Come and meet an actor playing Henry Shaw and tour Shaw's home, the Tower Grove House. Enjoy old-fashioned entertainment including an organ grinder, a silhouette artist, a stilt walker, actors in Victorian fashions, and birthday refreshments. Bring your bike and take a five-mile tour of Tower Grove Park too, during the third annual "Petal Pedal." Register in the Garden's east parking lot from 10 to 11 a.m. Visit www.trailnet.org for more details.

photo courtesy ZMD locations

Celebrate Membership Weekend
Friday–Sunday, August 24–26
It's all for one and one for all! During Celebrate Membership weekend, your membership benefits are reciprocal at the five cultural institutions making up the Metropolitan Zoo-Museum District (ZMD)—the Missouri Botanical Garden, the Missouri History Museum, the Saint Louis Art Museum, the Saint Louis Science Center, and the Saint Louis Zoo. To participate, simply present your Garden membership card at each location and you'll receive a variety of benefits, including: discounted or free entry to exhibitions or ticketed venues, discounts on food and beverages and in the gift shops, and more! So eat lunch overlooking Forest Park, go on safari, tour a special exhibition, or catch a star show. Like what you see? You'll be able to purchase a membership at very special rates in support of our community's cultural institutions.



Best Homegrown Tomato Challenge
Saturday, August 18, 10 a.m. to noon
Bring your prize 'maters to the third annual NatureSweet Best Homegrown Tomato Challenge at the Garden and compete for two $2,500 grand prizes. Entry forms are available after July 5 at local Schnucks, Dierbergs, and Shop 'n Save stores. Registration begins at 10 a.m.; judging at 11:30 a.m. Garden admission is free before noon to anyone who brings three tomatoes or 12 cherry tomatoes (of the same type) to enter in the contest.

Saturdays through October, drop in anytime between 11 a.m. and 2 p.m.
With a focus on nature study, nutrition, and exercise, these Great Green Adventures are educational fun for the whole family and a great introduction to the Garden's family of attractions! Upcoming adventures for July and August include:

July 7 *This is the House that Shaw Built*
(MBG: Tower Grove House)
Old houses have many tales to tell and Henry Shaw's country house has a special story to share. Explore Tower Grove House and take home a house mouse puppet.

July 14 *From Dirt to Dinner* (MBG: Children's Garden)
Pioneers and farmers had to work very hard for their dinner. Growing crops, watering, weeding, and harvesting. Try some hands-on pioneer chores and taste some pioneer foods.

July 21 *Edible Bugs* (Butterfly House in Faust Park, Chesterfield)
Did you know that 80 percent of the world's population eats insects on a regular basis? Learn about these delights from around the world or even tempt your own tastebuds.

July 28 *Herbal Adventures* (MBG: Children's Garden)
Travel through time and learn about ways herbs can be used. Taste some herb-flavored candy and take home your very own mint plant.

Aug. 4 *Whispering Water and Kool Koi*
(MBG: Japanese Garden)
We'll explore the watery places in the Japanese Garden, then take a special look at the multicolored koi fish. Create a colorful koi banner to take home.

Aug. 11 *Watery World* (MBG: Children's Garden)
Get your hands wet as we collect plants and animals that call our pond "home." Then make a paper plate pond to take home.

Aug. 18 *Be a Sustainability Superhero—Watching out for Water!*
(EarthWays in Grand Center)
When you take a 20 minute shower, you use enough water to fill 50 gallon-sized milk jugs! Make your own shower timer so you'll know it is time to get out of the shower.

Aug. 25 *Rope Making and Nautical Knots*
(MBG: Children's Garden)
Back in pioneer days, rope was made out of natural material and plants. Be a pioneer for a day and learn how to make rope by hand.

photo by Erin Whitson

Taiko drummers at last year's Japanese Festival.

Japanese Festival 2007: A Midwest *Matsuri*

Labor Day weekend, September 1, 2, and 3
It will be a Midwest *matsuri* (celebration) when the Japanese Festival returns to the Garden on Labor Day weekend 2007. Learn about the fascinating, mysterious world of geisha from a woman who knows it firsthand. Experience the thrilling action of a sumo wrestling bout. Listen to the thunderous pounding rhythms of taiko drums. Don't miss the Candyman; kimono fashion shows; ikebana flower arranging and bonsai ornamental pruning demonstrations; bon odori summer festival dancing; budo and koryu bugei martial arts exhibitions; candlelight walks through the Japanese Garden; and an anime screening. Browse the merchandise marketplace for Japanese souvenirs or the food court for yakisoba noodles, okonomiyaki pancake, and green tea ice cream. Signature event pricing applies. Visit www.mobot.org for more details.

Sponsorship provided by Emerson, Novus International, Inc., and other friends of the festival.

Members' Events

photo by Kevin Wolf

Don't miss the first-ever Members' Family Picnic with live music, bubble activities, and Children's Garden fun.

Members' Family Picnic

Friday, July 20, 6 to 9 p.m.,
Cohen Amphitheater and Children's Garden
Members are invited to bring a picnic dinner, blankets, and lawn chairs to the Cohen Amphitheater and enjoy an evening of family fun. High-energy worldbeat music by Joia. Face painting, activities, and games, including the Bubble Magic troupe, who make bubbles big enough to hold small children! Free popcorn, sno-cones, and lemonade. Mark Twain will entertain in the Doris I. Schnuck Children's Garden, open for exploration till 8 p.m. The evening is free, but reservations are required. You won't want to miss our first-ever, fun-filled Members' Family Picnic, so reserve your spot today by calling (314) 577-9570.

Tower Grove House Auxiliary Children's Tea
Tuesday, July 17, 1 p.m. Orthwein Floral Display Hall
Bring your child or grandchild and join us for afternoon tea followed by an informative session with St. Louis's "First Lady of Manners" Maria Everding, president of The Etiquette Institute. Learn about table manners, introductions, answering the phone, and writing thank you notes. Light refreshments will be served. Tickets are $12. Participants will receive a 20 percent discount coupon for the Garden Gate Shop. To reserve your spot by July 11, call (314) 577-5154.

Members' Day: Butterfly House*
Wednesday, July 25, 11 a.m., Butterfly House, Faust Park
Join Mark Deering, Living Collections Manager and chief lepidopterist (i.e., butterfly specialist), at the Sophia M. Sachs Butterfly House to learn more about how the Butterfly House acquires and cares for animals, and the positive impacts of butterfly farming in tropical countries. Enjoy a guided tour of the facility following the presentation.

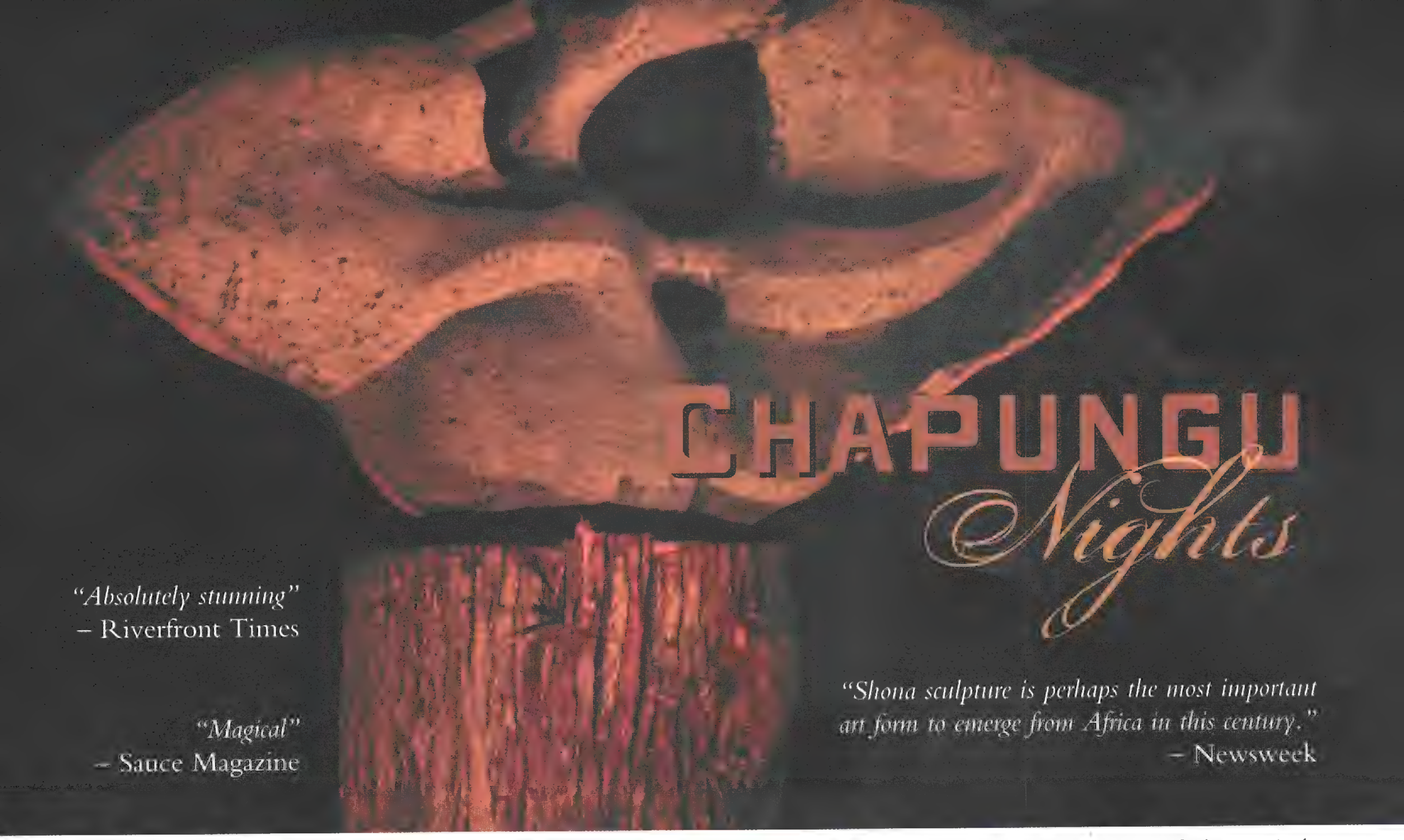
Member Orientation*
Sunday, August 5, noon, Shoenberg Auditorium
Get the lowdown on events, discounts, classes, volunteer opportunities and all the benefits membership offers. Tour at 1 p.m. follows the presentation. Participants receive Bonus Bloom passes, and discounts in Sassafras café and the Garden Gate Shop. Bring your friends along who might want to become Garden members!

Members' Day: Flower Confidential*
Saturday, August 11, 11:30 a.m., Shoenberg Auditorium
Join us for a flower extravaganza when author Amy Stewart speaks and signs copies of her bestselling book, *Flower Confidential: The Good, the Bad, and the Beautiful in the Business of Flowers.* We'll start the program with the St. Louis Florists Network, who will share the best care practices for cut flowers, as well as tips and tricks for floral designing at home. Arrangements will be given as attendance prizes and all participants will receive a complimentary flower courtesy of Rio Roses.

Rescheduled Ottoman Garden Tour
The previously scheduled August 15 Members' Day: Ottoman Garden Tour has been cancelled, but will be rescheduled at a later date.

Save the Date—Grandparents' Day
Sunday, September 9, 1 to 3 p.m., Cohen Amphitheater
Make your reservations now to celebrate this special day with fun activities for grandkids and their grandparents at the Garden. Visit the Doris I. Schnuck Children's Garden, enjoy snacks, and create a special craft project. To reserve your spot, call (314) 577-9570.

**During Members' Days and Events, members enjoy discounts of 10 percent in Sassafras and up to 20 percent in the Garden Gate Shop and Little Shop Around the Corner.*



Every Thursday, Chapungu Nights features the beauty of Chapungu in the beauty of a Garden summer evening.

"It's hard to imagine a more glorious gallery space," wrote the *St. Louis Post-Dispatch*. The Garden forms the beautiful summer backdrop for the Chapungu sculptures. As the sun goes down, the lights come up to illuminate these monumental, textured and touchable sculptures for the enjoyment of Chapungu Nights visitors. Every Thursday from 5 to 9 p.m., you're invited to stroll through "one of the country's best botanical gardens" (*Frommers*) and enjoy the atmosphere of music, sculpting demonstrations, and casual self-guided tours of the exhibition. Appetizers and cocktails are available for purchase at Sassafras. Tickets are just $5 for members ($10 for non-members). If you wish to purchase tickets online at www. mobot.org, just enter the members' password **henryshaw** for your discounted rate.

"It's impossible not to be awed..."
– St. Louis Post-Dispatch

Out of Africa—the Chapungu Audio Commentary

If you listen closely, the Chapungu sculptures tell stories. Learn about these monumental hand-carved stones from Zimbabwe in a new audio commentary available July 1. Enjoy personal musings from the visiting artists, information on materials and techniques, and the importance of nature, family, and creatures of legend in Shona culture. Prior to your visit, download a FREE audio-commentary from the Garden's website (www.mobot.org) to your mp3 player (iPod, etc.). Or use your cell phone to dial up the audio-commentary during your visit to the Garden. The call is free, but minutes will be applied per individual cell plans. Call (408) 794-0870 and follow the prompts.

Workshop Space Available

Don't miss the chance to create your very own sculpture with the help of a Chapungu artist-in-residence. "Anyone can learn to find the image hiding in the stone," says artist Gedion Nyanhongo. No previous experience in art is necessary. Workshops continue through September. They are five days long and limited to six students per artist. The fee ($450; $500 for non-members) includes a sculpting stone from Zimbabwe, a set of tools to keep, and instruction by prominent Zimbabwean sculptors. For more details, visit www.mobot.org or call (314) 577-5117.

Birding

Purple Martin Facts

Scientific name: *Progne subis*

- Largest swallow in North America (7–8 inches)
- Dependent on humans for nest sites (east of Rockies)
- Native Americans hung gourds as first martin houses
- Eats all its food (insects) in flight
- Drinks water in flight (skims the surface and scoops)
- Over one million houses provided by North Americans

An active nest (left) in one of the new state-of-the-art purple martin houses installed on the grounds of the Monsanto Center (right).

The Purple Bird of Happiness

Purple martins are special birds. The largest member of the swallow family in North America, the adult males are covered head to tail in iridescent purple-black plumage. They are exceptionally strong flyers, considered "aerial acrobats," and prefer to both eat and drink on the wing. The species makes an annual 3,000 mile migration to the Amazon Basin in South America for the winter.

East of the Rockies, purple martins also hold the unusual distinction of being totally dependent on human-provided housing. In the early 1800s, the "father of American ornithology," Alexander Wilson, wrote about Native Americans hanging up empty gourds to attract purple martins. While no one knows for sure why this was done—companionship, insect control, scarecrows, etc.—one thing is clear: the purple martins underwent what biologists call a "tradition shift." Instead of selecting abandoned woodpecker nests as they had done in the past (and still do in the western U.S.), martins begin to nest exclusively in boxes and gourds near human activity.

For many years, the Garden hosted purple martins on the grounds of the William T. Kemper Center for Home Gardening. But in recent years, invasive, non-native English house sparrows and common starlings—believed responsible for declining martin populations across North America—had taken over the housing. Enter John Miller, member of the Purple Martin Conservation Association and Garden volunteer. Miller is widely credited for establishing martin colonies in Forest Park, and he hatched a plan. Today, the Garden has installed on the grounds of the Monsanto Center state-of-the-art purple martin housing, featuring deep compartments, specially shaped crescent openings, and pole-mounted predator guards. By mid-June of this year, there were three active nests and five fledglings.

Purple martins have taken on a special status among conservationists due to the threat of invasive bird populations, but also due to global warming. "Purple martins are a barometer of the health of the planet," says Miller. Since they are aerial insectivores, the return of purple martins in spring depends on the emergence of flying insects. Good data exist on these arrival times, and recent years show the impact of global climate change in arrivals as much as ten days early.

This year, some early-arriving purple martins in April met with tragedy during the prolonged freeze. "Through supplemental feedings we were able to save some," notes Miller. Most of the nests now hatching were created by later arriving, younger birds.

Some of the flowering plants which have fared better with milder winters in St. Louis are (from left) daylilies, dahlias, gladiolus, and crinums.

Global Warming in the Garden

In 2006, the National Arbor Day Foundation published an update of the USDA plant hardiness zone map, last updated in 1990. Most areas are one full zone warmer, and a few areas are two zones warmer. Gardeners around the country rejoiced—if there was any good side to come from global warming, perhaps it would be growing tropicals in the backyard, right?

Well, yes and no. Along with the ability to overwinter plants previously susceptible to the cold, global warming brings a new set of threats: the potential for excessive heat, weather extremes, and most worrisome, warmer-temperature pests, which may not previously have been able to survive.

"Already we're seeing insect pests," says the Garden's answer man, Chip Tynan. "Azalea lace bugs, tulip tree scale, magnolia scale—these were associated with the Deep South. But they are much more widespread locally in recent years."

The St. Louis area, which was previously Zone 6a in the 1990 map, is considered a Zone 6-7 microclimate on the new map. This was hardly news for the Garden's experienced horticulturists, who had already been noting marked changes the last few years.

- "Crepe myrtles have become tree-sized. They would never have grown this big in the past," reports Tynan.
- June Hutson, horticulture supervisor: "*Styrax officinalis* (Snowdrop bush) used to be considered not quite hardy here, but now returns almost every year with vigor."
- "Most of our daylilies are hybridized from southern-bred stocks," says senior horticulturist Jason Delaney. "These milder winters seem to be a boon to their increased blooming time."
- "We have also been able to successfully overwinter out of doors (as perennial bulbs) many 'non-hardy' subtropical and temperate species such as *Crinum, Zephyranthes, Eucomis, Agapanthus, Dahlia, Canna, Gladiolus, Polianthes, Galtonia,* and even an occasional *Hippeastrum*—all previously considered intolerant of frost or freeze," adds Delaney.

Zones were already becoming "muddled," notes Delaney, by better plant stock. "In the past ten years, tremendous improvements have been made for such things as greater bloom count, repeat bloom, and hardiness." The Garden was already testing some new varieties, such as cold-hardy camellias, but as horticulturists also note, a year like 2007, with its vicious spring freeze, has "kept us humble."

Says Tynan: "St. Louis is the center of the continent, and that won't change. We're where Arctic clippers meet hot blasts from the South. Any gains that plants might make here get smacked back eventually by the unique extremes of St. Louis weather."

So before you home gardeners rush to plant those tropicals, best to visit the William T. Kemper Center for Home Gardening for the latest, up-to-the minute advice. For the new Hardiness Zone Map and an animation showing the shift in zones, visit www.arborday.org.

Gardening

Vacation Garden at the William T. Kemper Center for Home Gardening.

Vacation-Proof Plants

Planning a vacation this July or August? Did you remember to set your irrigation timer or ask a dependable neighbor? For gardeners who have had the unhappy experience of returning from a relaxing vacation only to find their St. Louis backyard withered beyond repair, the Kemper Center for Home Gardening offers some options. Installed last year in the experimental gardens area, a new "Vacation Bed" features perennials and annuals which not only survive, but might even thrive, on reduced irrigation.

"Their cultural requirements are such that excess wetness is a detriment," says supervisor June Hutson. "We call it a 'vacation bed,' as one could go away for a period of time, even a few weeks, and the garden would survive without assistance."

Some plants in this category are annuals *Gaillardia, Portulaca, Gypsophila,* and *Euphorbia.* Perennials include several woody plants, such as *Caryopteris* and *Perovskia,* as well as cultivars of *Sedum, Achillea, Penstemons,* and *Asgatache.*

Henry Shaw Cactus Society Show and Sale

Saturday to the following Sunday, July 21–29
The 65th annual Henry Shaw Cactus Society show and sale features hundreds of varieties of cacti and succulents from throughout the world. Members will be on hand to answer questions and encourage beginners to grow these easy-care plants. Also on view through August 19, "Succulent Palladiums," a photography exhibition by Michael Eastman of images of cacti and succulents taken in the Garden's greenhouse and created using the vintage process of palladium printing.

Plastic Pot Recycling

Thanks to everyone who made the ninth year of Plastic Pot Recycling another fantastic success! At press time, Dr. Steve Cline, Manager of the Kemper Center for Home Gardening, reported that the program was well on target for the stated goal of 100,000 pounds of horticultural plastic saved from the landfill this year—up 33 percent from the 75,000 pounds collected in 2006.

Dr. Steven Cline sorting plastic pots for recycling.

Purchase recycled timbers

Garden pots and trays have been recycled into landscape timbers, useful for building retaining walls, borders, and raised garden beds. Each timber measures 7-inches by 9-inches by 8½ feet long and weighs 280 pounds. Timbers are sold for $40 each to those with appropriate load-bearing transportation. Homeowners are encouraged to work with landscape contractors for transportation, planning, and construction with these timbers due to the weight and equipment required for moving. Timbers can be cut with a circular saw and drilled similar to wood. Proceeds from the sale of these materials will be used to continue the annual collection.

Retaining wall timbers made from recycled garden pots and trays.

For more information on the plastic pot recycling program or to purchase plastic timbers, contact Dr. Steven Cline at steven.cline@mobot.org or call him at (314) 577-9561.

Sponsored by the St. Louis-Jefferson Solid Waste Management District and Monrovia Growers, Inc.

What to do in your garden now...

clip and save

photo by Kevin Wolf

July

all month

- ❑ Deadhead spent perennials and annuals.
- ❑ Remove infected leaves from roses.
- ❑ Pick up fallen leaves.
- ❑ Continue fungicidal sprays as needed. Fertilize container plants every 2 weeks with a water-soluble solution.
- ❑ Newly planted trees and shrubs should be watered thoroughly once a week.
- ❑ Maintain a 2–3 inch layer of mulch around tomatoes and peppers to prevent blossom-end rot.
- ❑ Cover grape clusters loosely with paper sacks to provide some protection from marauding birds.
- ❑ Water grass deeply at least once a week. Early morning irrigation allows turf to dry before nightfall and reduces the chance of disease.

week 1

- ❑ Apply no fertilizers to trees and shrubs after July 4.
- ❑ Plant zinnia seed by July 4 for late bloom in annual border.
- ❑ Hot, dry weather is ideal for spider mites. Look for leaves speckled above and yellow below and evergreen needles that appear dull gray-green to yellow-brown.
- ❑ To minimize insect damage to squash and cucumber plants, cover them with lightweight floating row covers. Remove covers once plants flower.
- ❑ Prune out and destroy old fruiting canes of raspberries after harvest is complete. Blackberries are ripening now.

week 2

- ❑ Prune climbing and rambler roses after bloom.
- ❑ Dig potatoes when the tops die. Plant fall potatoes now.

week 3

- ❑ Powdery mildew is unsightly on lilacs, but rarely harmful. Shrubs grown in full sun are less prone to this disease.
- ❑ Cut semi-hardwood off spring flowering shrubs now. Summer pruning of shade trees can be done now.
- ❑ Harvest onions and garlic when the tops turn brown.
- ❑ Keep cucumbers well watered. Drought conditions will cause bitterness.
- ❑ Sweet corn is ripe when the silks turn brown.
- ❑ Monitor lawns for newly hatched white grubs. If damage is occurring, apply appropriate controls.

week 4

- ❑ Divide bearded iris now.
- ❑ For the fall garden, sow seeds of collards, kale, sweet corn, and summer squash as earlier crops are harvested. Sow seeds of carrots, beets, turnips, and winter radish for fall harvest.
- ❑ Early peach varieties and thornless blackberries ripen now.

photo courtesy MBG Plantfinder

August

all month

- ❑ Deadhead annuals/perennials as needed. Annuals may appear leggy and worn now. These can be cut back hard and fertilized to produce a new flush of bloom.
- ❑ Continue spraying roses that are susceptible to black spot and other fungus diseases.
- ❑ Compost or till under residues from harvested crops. Watch for fall webworm activity.
- ❑ Prop up branches of fruit trees that are threatening to break under the weight of a heavy crop.

week 1

- ❑ Feed fall-blooming perennials (mums, asters) for the last time.
- ❑ Divide bearded iris. Discard old center sections and borer damaged parts. Replant so tops of rhizomes are just above ground level.
- ❑ Prune hedges to shape for the last time this season.
- ❑ Broccoli, cabbage, and cauliflower transplants should be set out for the fall garden.

week 2

- ❑ Roses should receive no further nitrogen fertilizer after August 15.
- ❑ To grow big dahlia flowers, keep side shoots pinched off and plants watered and fertilized regularly.
- ❑ Evergreens can be planted or transplanted now to ensure good rooting before winter arrives. Water the plant and the planting site several days before moving.
- ❑ Cure onions in a warm, dry place for two weeks before storing. Sow seeds of beans, beets, spinach, and turnips now for the fall garden.
- ❑ Cover ripening fruits with netting to protect from birds.
- ❑ Fall-bearing red raspberries are ripening now.
- ❑ Apply insecticides now for grub control on lawns being damaged by them. Zoysia lawns should receive their final fertilizer application.

week 3

- ❑ Begin planting lettuce and radishes for fall now.
- ❑ Watch for fall webworms.
- ❑ Cultivate strawberries.
- ❑ Lawns scheduled for renovation this fall should be killed now. Have soil tested to determine fertility needs.
- ❑ Dormant lawns should be soaked to encourage strong fall growth.

For additional information on plant care and gardening:

- *visit the Wm. T. Kemper Center for Home Gardening.*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org.*

Featured Plant of Merit™

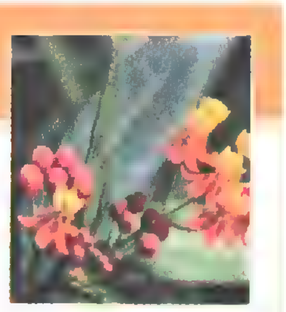


Photo by Sarah Greene

Blood flower
Asclepia curassavica

This monarch butterfly magnet is best grown as an annual. The showy clusters of gold and red flowers dance in the sun, encouraging butterflies and hummingbirds to stay awhile. Related to native milkweed, this long bloomer is a great cut flower and deer-resistant too.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

Garden at Large

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

Small mesh bags over monkey flower blooms help in a study of levels of self-pollination versus insect pollination at the Reserve.

Summer Science at Shaw Nature Reserve

With its rich mosaic of natural habitats and careful ecological management, diversity of both Shaw Nature Reserve's native plants and animals is thriving and even increasing, making the Reserve an attractive site for biodiversity research. Scientists from four different St. Louis area universities are pursuing projects here, with the largest representation from the ecology group of the biology department at Washington University. Through studies carefully designed to be nondestructive to the organisms and their habitats, botanists are studying biogeography of larkspur and skullcap species, pollination of different evening primrose species, reproduction of purple monkey flower, and genetics of wild grasses. Biologists are investigating amphibian diversity, eastern fence lizard hunting behaviors, paper wasps, braconid wasps, and pollinating insects of prairie wildflowers generally. So if you wonder what those small mesh bags on the plants might be, or the bluebird-box-looking-thing, they are the tools of scientists at work.

Summer Wildflowers

Think spring is the season for wildflowers? Well, time to rethink. Since most of us understandably tend to seek the shade and air conditioning in summer, we may not notice the abundance of showy wildflowers that bloom in the full sun of the prairies and wetlands of the St. Louis region. In fact, it is during the heat of summer when the greatest number of different plant species flower, and there is no better place to take in this richness than the trails that traverse these habitats at Shaw Nature Reserve. In particular, the recently renovated Wetland Trail will allow you to view many of these beauties in the cool of the morning without getting your shoes wet with dew, or at any time without being ambushed by ticks. (You'll still need repellent for flying biters, though.) Highlights include a variety of sunflower-family, milkweed-family, pea-family, and of course, the prairie grasses, each with their distinctive seed heads.

Native Plant School

Sign up now for one or several of these mostly outdoor learning sessions in the Whitmire Wildflower Garden. Classes cover various aspects of native home landscaping and prairie/savanna/wetland reestablishment. All classes take place on Thursdays, 1 to 4 p.m. $8 ($12 for non-members). Call (636) 451-3512 to reserve your spot.

July 12 Gardening in Dry Sun and Shade
Aug. 9 Prairie Reconstruction: Site Prep and Seed Collecting
Sep. 6 Prairie Reconstruction: Seeding and Maintenance

The prairie reconstruction classes are available both for the general public, as well as professionals in the landscaping industry. With the prairie in full bloom during this time of year, it's a perfect time to visit the Reserve.

Photo by Mark Bowers

Butterfly of the Month

Black Swallowtail
Papilio polyxenes

Range: North America, southern Canada

One of the 165 or so butterflies native to Missouri, black swallowtails are commonly found in backyards this time of year. The larvae eat parsley, dill, carrots, and other plants in this family, so they are common in many vegetable and herb gardens. They don't eat much, however, and some gardeners actually plant patches specifically to attract these beauties. Adults prefer buddleia, asters, and ironweed, among others, as nectar plants.

Butterfly House

15193 Olive Blvd., Chesterfield, MO 63017
(636) 530-0076 • www.butterflyhouse.org

Wing Ding 2007

Saturday, September 15, 6 p.m.
Wing Ding 2007 is in the chrysalis stage and will quickly emerge as our most spectacular and wondrous "butterfly" of a benefit gala ever. Don't miss this marvelous biennial benefit for the Sophia M. Sachs Butterfly House. Enjoy a dinner of fine food and drink, live music, and both live and silent auctions. Co-chairs for this year's event are Robert and Kim Brinkmann and Thomas and Jane Sehnert. The evening begins with cocktails in the garden at 6 p.m. Stroll around and enjoy the fluttering migratory butterflies on their way south in the Native Habitat, wander through the conservatory and enjoy seeing the tropical butterflies in flight. At 7 p.m., dinner is served on the Emerson Lakeside Terrace. Tickets are $350 and reservations are required. Full tables and sponsorship opportunities are available. Please call (314) 577-0291 for details.

Camp Bugaloo

Sundays and Mondays in July and August
Designed for children ages 2–4 years with a parent or guardian, each ninety-minute program is packed with science, imaginative play, arts and crafts, math, and more. The theme this year is the four seasons. In July, we focus on spring. In August, summer. $14 ($16 for non-members). To register, please call (636) 530-0076, ext. 13.

BUZZ

A monthly series of 90-minute classes, workshops, and events for young scientists ages 8–12, with a parent or guardian. Classes take place on Saturdays and begin at 10 a.m. On August 11, it's "Jump Start Your Science Fair project." $14 ($16 for non-members). Class size is limited, so register today at (636) 530-0076, ext. 10.

EarthWays Center

3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

EarthWays and America SCORES

The Garden's "Green Learning" specialists at the EarthWays Center recently teamed up with students in six St. Louis public schools to make recycling, poetry, and soccer a winning combination. America SCORES is a national program designed to help children build leadership and literacy through a unique combination of soccer and creative writing. This spring, EarthWays education coordinator Katy Mike Smaistrla worked with St. Louis SCORES to include recycling and composting in the mix. Students in grades 3–5 used recycled materials to design and make toys and fashions. Other groups constructed worm bins to begin classroom composting. Children put their soccer-team skills to work during a relay race to put items in the correct recycling bins. "The kids learned a lot about conserving our natural resources," says Smaistrla, "and they had fun while doing it!" For more information on EarthWays Center education programs, visit www.earthwayscenter.org.

photo by Katy Mike Smaistrla

SCORES students at Simmons-Marshall Elementary display recycled fashions designed during an EarthWays lesson.

Subscribe to EarthWays E-news for quarterly updates on green homes, energy and recycling options, local sustainability events and organizations, and more! E-mail earthways.center@mobot.org.

Volunteers at the Garden

There are many different kinds of volunteer opportunities at the Garden—everything from hands-on horticulture to education and front-desk hospitality. If you want to help the Garden with a portion of your time, there's a spot for you!

The history of the volunteer program is intertwined with that of the membership program. Despite a period of growth in the early decades of the 20th century, the Garden suffered along with the populace during the Great Depression of the early 1930s, with revenue from the estate of founder Henry Shaw falling to an all-time low in 1934.

"The staff did its best to turn people's gaze for a moment from their growing debts and the increasing lines of the unemployed," writes historian W. B. Faherty, S.J., but times were tough.

To help their beloved Garden in these lean years, a dedicated group of individuals established a "Friends of the Garden" fund, which would eventually become the Friends of the Garden organization, a precursor of the Garden's membership program. During World War II, the *St. Louis Globe Democrat* reported that groups of women began volunteering at the Garden to make up for a shortage of "manpower" due to the war, perhaps the first hint of a formal volunteer program.

Throughout the 1950s and 1960s, volunteers became more prevalent at the Garden. Efforts to renovate, reopen, and staff the Tower Grove House in 1953 were spearheaded by volunteers. When a retail shop opened to benefit the Garden in 1962, the beginnings of the Garden Gate Shop, it was again staffed by volunteers. The Garden Guides, who would become today's Docents, launched in 1968.

By the 1970s, the Garden had hundreds of volunteers and a need for formal coordination. In 1973, the modern Volunteer Program office was established, and the numbers of volunteers—and the diversity of their contributions—have continued to grow. Today, the Volunteer Program office meets the needs of over 1,400 people each year who want to help the Garden with gifts of their time and expertise.

Featured Volunteer Opportunities

- Are you a "people" person? Would you like to volunteer in a fun, interactive environment? Volunteers at the Garden's Membership Services Desk are the first stop for new or would-be members. You'll be trained to answer questions about the Garden, accept membership forms, issue temporary cards, and distribute free gifts. Just work two days per month for a 3½ hour shift each time.
- Can you describe an ecosystem? Are you able to identify and describe examples of organisms found in Missouri? Volunteer Educators at Litzsinger Road Ecology Center help students discover the answers to these questions and many more. Required training to become a Volunteer Educator lasts 10 Mondays (September 10 to November 12).
- Love the Garden, but are only free on weekends? Weekend Docents share their knowledge of the Garden's history and collections with visitors on our daily 1 p.m. tour. Required training on four Saturdays, beginning September 29.
- How do we teach school children about "Desert Life" while living in the humid Midwest? Volunteer Instructors! These enthusiastic volunteers, many of them former educators, offer school programs September through May. Required training on Tuesdays, October 2, 16, 23, and 30.

For more information on these and the full variety of volunteer opportunities available, call Jackie Juras at (314) 577-5187.

Award-winning volunteers: Marian Herr and Jane Thomas flank Dr. Peter H. Raven. Second row: Janis Henricks, Jackie Bainter, Nancy Seifer, Marcie Dairaghi, Bernice Raineri, Dorothy Hitt, Phyllis Pieper. Third row: Kathy Beine, Lynda Cain, Elaine Baden, Bob Noe, Bill Lenz, John McCormack. Not pictured: Mary Jo Cummins, Jo Dalton, Sheldon Enger, Pauline Jaworski, Ray Kirkman, Dub Koon, Louise Sandler, Patty Taillon-Miller.

Thank You, Volunteers!

Last year, the number of volunteers at the Garden rose to 1,463. They contributed 115,330 hours of service, or the equivalent of 59 full-time employees. The largest numbers of volunteers work in the Horticulture and Education divisions, but volunteers help out in almost every area, and the Garden could not operate at current levels of international renown and community outreach without the help of these dedicated individuals and groups.

On Tuesday, May 15, the Garden celebrated this remarkably capable volunteer work force at the annual Volunteer Appreciation Evening, where five unique individuals were singled out for special awards:

- Bob Noe, *Commitment Award*
- Bill Lenz, *Extra Service Hours*
- John McCormack, *Special Achievement Award*
- Volunteer Instructors group, *Organization Award*
- Marian Herr, *Lifetime Achievement Award*
- Jane Thomas, *Lifetime Achievement Award*

The Garden is deeply grateful to these special award recipients, and to the whole volunteer corps. Thanks for another great year!

From the field:

Climate Change and Tibetan Ethnobotany

Today, in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever, before we can determine their uses or their role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active and geographically widespread botanical research program in the world. Their work forms the base on which the pyramid of plant science and conservation stands.

The first ecosystems on Earth to feel the effects of climate change are arctic and alpine (mountain) areas. At the poles of the planet and in the mountains, inhabitants and scientists are already witnessing melting glaciers and sea ice, eroded coastlines, and plants and wildlife adapted to highly specialized conditions now struggling to survive. If the world continues on our present trajectory of carbon emissions, temperatures for the arctic and alpine are projected to rise 11–14° F by 2080 (Intergovernmental Panel on Climate Change).

Dr. Jan Salick, the Alice H. Brown Curator of Ethnobotany at the Missouri Botanical Garden, is monitoring the alpine flora of the eastern Himalayas to detect changes. National Public Radio profiled some of her work last year (visit www.npr.org and search on "Jan Salick"). Salick collaborates with Chinese institutions and is a senior fellow at Oxford University where she works with the Environmental Change Institute. Her research is in collaboration with the international GLORIA consortium studying the impact of climate change on alpine areas throughout the world.

The team also investigates the impact of climate change on traditional Tibetan culture. Tibetans depend on alpine flora for Tibetan medicine, and Tibetan doctors spend at least a month every year in the mountains collecting medicinal herbs. This collection is increasingly challenging. Tibet's 46,000 glaciers, which feed many of Asia's biggest rivers and supply water to populous China, are shrinking fast—by as much as 10 percent since records began in the 1960s. As the glaciers retreat, trees and shrubs are moving up the mountains, and the highest vegetation, perched on remote mountain tops, is being pushed off the last reserves. Tibetans report that snows are decreasing, droughts are affecting crops, and pests and diseases are increasing. In their cool mountain homelands, Tibetans are not used to worrying about food spoilage; but now with increasing temperatures, they are experiencing abnormal diarrhea and stomach upsets.

The mountains are the sacred manifestation of gods in Tibet. Mt. Khawa Karpo is one of these sacred peaks and Tibetans are anxious that its melting glaciers and snows indicate that the god Khawa Karpo is angry and withdrawing from the earth. "For Tibetans, climate change is a moral and religious issue," says Dr. Salick, "but it also reveals people's feelings of powerlessness. We are working to foster hope and raise awareness."

The receding glaciers of Mt. Khawa Karpo signify more than global warming to Tibetans, who view the mountains as a sacred manifestation of the gods.

Dr. Salick (in green) with Tibetan and Chinese colleagues monitoring the effects of climate change on the alpine flora of the Eastern Himalayas.

Photo by Ryan Rumberger

Tributes

March/April 2007

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-9500. You can also make a tribute gift online at our website, www.mobot.org.

In Honor of

Gary and Sally Baker
Mr. and Mrs. Michael E. Harmon

Don and Bonnie Corbin
Concord Trinity Methodist Walking Club

Mrs. Jean L. Crowder
Ms. Ann C. Dintelmann
Ellen Dubinsky
Mrs. Charlotte Fahey
Ms. Dolly Horn
Ms. Lisa B. Kurtz
Mrs. Suzanne Rickert
Ms. Janet Schwalbe
Mrs. Kathy L. Simons
Mrs. Betty Tonneas
Ms. Teresa Tonneas
Ms. Su-Ellen Viscuso-Serkes

Mr. Jack Deutsch
Ellen and Henry Dubinsky

Dr. E.V. Feldman
Ms. Laura Feldman

Mrs. Maureen Greenberg
Dr. and Mrs. Arnold M. Goldman

Mr. and Mrs. Jay Heninger
Mr. and Mrs. Walter G. Stern

Mr. and Mrs. George Heymann
Mr. and Mrs. Albert Brown
Mr. and Mrs. Bob Brown

Harry and Wendy Jablonow
Dr. and Mrs. Gary Kulak

Drs. Bill and Judy Jeffers
Mr. and Mrs. Bill Szedlar

Portia Wells Jones
Mrs. Potia W. Jones

Mr. and Mrs. Al Kaufmann
Mrs. Gloria Jean Sirkin

Mr. Herb King
Mr. Albert S. Rose

Mrs. Mary Jane Kirtz
Mrs. Patricia M. Bushman

Mr. and Mrs. Louis Kohn
Miss Pamela A. Ward

Mrs. Gay Kornblum
Mrs. Ruth B. Seldin

Dr. Edwin D. Krell
Mrs. Marjorie N. Ross

Dr. Matthew J. Matava
Charlotte and Joseph Feder

Mr. Charles D. Mayer
Sally and Milton Tofle

Mr. John C. McPheeters
Mr. and Mrs. Charles N. McAlpin

Ron and Paula Meyer
Mr. and Mrs. Merlin E. Lickhalter

Mr. and Mrs. Larry Nadler
Mr. and Mrs. Michael E. Harmon

Dr. Beverly Nance
Ms. Susan Morice

The Woody Newton Family
Mr. and Mrs. Jack R. Bodine

Ms. Ginny Pona
Mr. and Mrs. Gordon Ferguson

Mr. and Mrs. Manuel Louis Ponte
Mr. and Mrs. Harry N. D. Fisher

Mrs. Neva Quest
Mr. and Mrs. Frank O. Doss

Sue and Kipp Rapp
Mr. and Mrs. George L. Hensley

Sister Ruth M. Raupp
Donna and Terry

Mr. and Mrs. Albert F. Repple
Ms. Margaret Yanevich

Mr. Daniel E. Richardson
Ellen and Henry Dubinsky

Mrs. Lucianna G. Ross
Kimmswick Historical Society

Mrs. Dorothy P. Russo
Cindy and Doug Cross
Cathy and Brad Fisher

Mr. Gideon H. Schiller
Mr. and Mrs. William B. Eiseman, Jr.

Mr. and Mrs. Lloyd Schnieders
Ms. Beverly S. Holtzman

Erin and Marc Schreiber
Mr. and Mrs. Steve Latz

Mrs. Sheri Schwartz
Ms. Ellen Levine

Dr. Robert Senior
Charlotte and Joseph Feder

Irma and Howard Sparks
Mr. and Mrs. Loren R. Rutledge

Mrs. Nora Stern
Mr. and Mrs. Richard B. Rosenthal

Sophie Stern
Mr. and Mrs. Rick Halpern

Ms. Su-Ellen Viscuso-Serkes
Mrs. Betty Tonneas

Ms. Susan E. Wanner
Jana H. Smutzer
Ruth Whitelaw

Pat and Warren Werner
Mr. and Mrs. Walter E. Bentrup

Mr. Blanton J. Whitmire
Dr. and Mrs. F. Thomas Ott

Ms. Kathleen Williams
Mr. and Mrs. Richard Laitman

In Memory of

Dr. Charles Caspari Abel
Mrs. Judith A. Grabbe

Mr. George Adler
Mrs. Ann Case

Mr. John J. Arado
Mr. and Mrs. Roger H. Volk

Mrs. Susanna E. Arno
Don and Anne Hemmer

Mr. Wayne Babler
Mr. and Mrs. Edgar Mayfield

Corporal Riley E. Baker
Bunzl USA, Inc.

Mrs. Susan J. Bandy
Ladue Middle School
Friends and Family

Josephine Barket
Mr. and Mrs. Harold P. Amann

Ms. Gwen (Wendy) Beach
Ms. Viola McKinney

Mother of Mary Blum
Mrs. Dolores M. Wente

Elizabeth Boente
DeYoung, Fitzgerald, and Boaz families

Mr. Edward Boyce
Mr. and Mrs. Michael N. Valenta

Mrs. Freda M. Bradley
Dr. William Ashworth
Mr. and Mrs. Philip N. Dare
Ms. Roberta A. Dare
C. Lee Jones
Mr. and Mrs. Harry J. McMackin
Mrs. Cynthia Rogers
Siegfried Ruschin
SSA/DPB
Mrs. Robin Stanley
Ms. Gayle Van Auken

Ms. Ruth Ann Brandmeyer
Laclede Oaks Manor Residents' Association

Mrs. Betty L. Bransford
Dr. and Mrs. Harry T. Duffy

Mrs. LaNor Brewer
Mrs. Catherine Lemcovitz

Mrs. Leslie Stephan Bruce
Lisa, Rob, Grace, and Jane
Ellen Ross

Mrs. Leonor Cardenas
Dr. and Mrs. Edward Weiss

Dr. Katherine P. Chambers
Mrs. Roberta S. Dearing
Mrs. Shirley Durfee
Mr. and Mrs. Albert J. Hitt
Ms. Jackie Juras
Mr. Irwin V. Kuehling
Robert and Odile Mecker
Missouri Botanical Garden Docents
Ms. Joyce Radcliffe

Mrs. Maribeth Chase
Don and Anne Hemmer

Mrs. Florence T. Clark
Don and Anne Hemmer

Mrs. Edythe H. Cody
Mr. and Mrs. Terry Atwood
Mr. Benedict G. Janson
Mr. and Mrs. David M. Minnick
Mr. and Mrs. John Moloney
Moloney Securities Company, Inc.
Stifel, Nicolaus & Company, Compliance & Registration Department
Mrs. Harriet M. Williams

Mr. Raymond J. Cordes, Sr.
Mr. and Mrs. Harold P. Amann

Mr. Russell A. Court
Dr. and Mrs. Richard J. Bower

Katie Coutrakon
Katie and Drew Davis

Mrs. Emma Mae Craig
Mr. and Mrs. Ronald J. Martin

Florence De Mierre
Mrs. Mary L. De Mierre

Mr. Robert L. Dieckhaus
Mr. and Mrs. Ralph Korte

Mr. Richard Dolan
Mrs. Ann Case

Dr. Robert M. Donati
Dr. and Mrs. Richard B. Whiting

Senator Thomas F. Eagleton
Mr. and Mrs. Charles P. Reay
Judge Harry Walker Wellford

Father of Bob Feinstein
Ms. Elaine Lapofsky-Kesten
Mr. and Mrs. Ronald E. Meyer

Mrs. Aileen S. Raven Fish
American Optometric Association
Mr. and Mrs. Andrew Felczan
Mr. and Mrs. Michael Rash
Ms. Helen Sacherman
Universal Shielding Corporation

Mrs. Dorothy M. Fisher
Mrs. Margaret Gibson

Mrs. Natalie E. Freund
Ellen and Henry Dubinsky

Mr. Robert S. Galinat
Mr. Thomas A. Shea

Mr. David A. Gee
Mrs. Ann Case

Mr. Paul V. Gewinner
Mr. and Mrs. Joseph J. Hahn, Jr.

Mrs. Rosemary Gewinner
Mr. and Mrs. Joseph J. Hahn, Jr.
Leo, Kathy and Sarah Schwartz

Mrs. Mary J. Gnemi
Amy and Bob Crandall
Carole Custer
Michelle and Greg Hunt
Marie and Irv Stobie

Mr. William Goering
Mrs. Evelyn Goering

Dr. Gene H. Grabau
Dr. and Mrs. John C. Martz

Mrs. Laura K. Griesedieck
Ms. Laura E. Griesedieck

Mrs. Sally P. Hailand
Mrs. James G. Alfring
Mr. and Mrs. H. Pharr Brightman
Mr. and Mrs. J. J. Landers Carnal
Garden Club of St. Louis

Jim Halpern's Mother
Mr. and Mrs. Norman Wielansky

Helen Schmid Hardy
Mrs. Betty L. Reck

Loretta Hoeft
Kevin and Deborah Dixon

Mr. Albert D. Hoehn
Mrs. Patricia L. Adams and Mr. Kevin P. Bryant
Miss Marion A. Bock
Mrs. Ann Case
Mr. Clark Hart-AFTRCC
Mr. and Mrs. William Hoehn
Ms. Jackie Juras
Mr. Michael J. Lodes
Ms. Jane Lynch
Mr. and Mrs. Paul H. Marsh
Mr. and Mrs. John K. Mote
Mr. and Mrs. Mike Wefelmeyer

Mr. James N. Holsen
Ms. Joan S. Murphy

Mrs. Constance R. Hull
Mr. and Mrs. Terry Dougherty
Mr. and Mrs. William Stern
Mr. and Mrs. Michael E. Von Hatten

Mr. Harvey Johnson
Jean, Julie and Kate Spurr

Mr. John Wesley Johnson
Ms. Mary T. Parsons

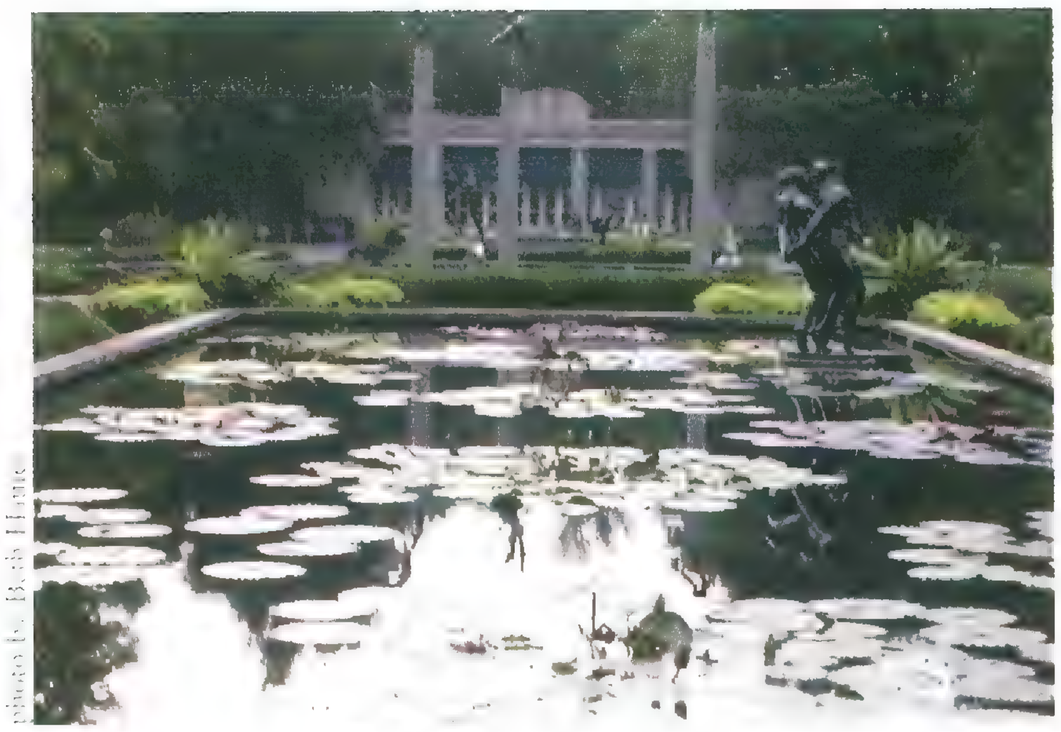
Mary H. Jolley
School Sisters

Mr. Edward Rickert Jones
Mrs. Portia W. Jones

Marguerite R. Jones
Mrs. Portia W. Jones

Mrs. Jeri Kimberlin
Ms. Betty Scheele

Mrs. Lee Klaski
Mr. and Mrs. Joseph Bilello
Mr. and Mrs. Bruce Buerkle
Mr. and Mrs. John Kump
Mrs. Christine Linnebach



Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information. Or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Loren and Audrey Klein
Jana H. Smutzer
Ruth Whitelaw

Mrs. Marie Knarzer
Mrs. Dolores M. Wente

Mr. Edward C. Kotas
Mr. and Mrs. Glenn J. Markwort

Dr. Jerry Koufer
Mrs. Rivalie S. Cohn

Mr. Edward Kovash
Mr. and Mrs. Dale Klatt
Dr. and Mrs. Richard Grimpelson
Mr. and Mrs. Steve Hilderbrand
Mr. and Mrs. Ray Moseley
Mrs. Jane Walchli
Mrs. Barbara Randman
Mrs. Delane Conroy

Miss Courtney Lammert
The Kugman Family

Ms. Judy Lamy
Mr. and Mrs. Henry O. Johnston

Ms. Julia Maffitt Lamy
Mrs. Alexander M. Bakewell

Jih Jie Chang Lin
Mrs. Lilly Ann Abraham

Mr. John Long, Sr.
Mr. and Mrs. Earl Reichert

Mrs. Virginia Grace Loomis
Ms. Barbara Grace

Mrs. Johanna Kelly Mack
Mr. and Mrs. Gordon Ankney
Ms. Carol Barnett
Ms. Evelyn L. Dennis
Mrs. Evan Goldfarb
Mrs. Laura Jordan
Ms. Anne Marie Kienker
Mrs. Alberta M. Knight
Ms. Janette Lohman
Mr. and Mrs. David M. Minnick
Mr. Michael Morris
Mrs. Jane E. Rohrbaugh
Mr. David Rubin
Ms. Victoria Sheehan
Mr. and Mrs. Ronald E. Smith
Dr. and Mrs. Allen D. Soffer
Mr. and Mrs. John P. Taylor
Harry and Amanda Wellford

Kalen James Mallett
Joy and Randy Miltenberger

Mr. and Mrs. Anthony J. Mantia
Sal, Mary, Jennifer, Joseph, Pat, and Shawn

Mr. Joseph C. McCracken
Ms. Ann T. Eggebrecht

Mr. Edward L. McGrath
Amberway Subdivision
Ms. Vanessa Ballesteros
Mr. and Mrs. Warren J. Barrios
Mr. and Mrs. Walter M. Chas
Ms. Donna Eubanks
Mr. and Mrs. Carl L. Hermann
Mr. and Mrs. Sid Hutchins
Mr. Robert J. Irwin
Jean and La Verne Kammer
Mr. Skip Keeter
Mr. Bruce J. Loewenberg
Mr. and Mrs. Donald J. Loos
Ms. Phyllis Maritz
Maritz Inc.
Mr. and Mrs. Elmer W. Meyer
Ms. Helen L. O'Brien
Mr. Harold O. Piening, Jr.
Ms. Susanna Potocnjak
Ms. Phyllis I. Powers
Mr. and Mrs. Randy Rapp
Ms. Marcine M. Rombach
Mr. and Mrs. William A. Sippy
Mr. and Mrs. Walter A. Taliaferro
Mr. and Mrs. Charles O. Terry
Ms. Joy Waelterman

Mrs. Louise Meckfessel
Belle Coeur Garden Club

Mrs. Doris Metziner
Mr. and Mrs. David Henry
Mr. and Mrs. Ike Schevers

Professor Frank W. Miller
Mr. Bernard Barela
Ms. Pat Miller

Mr. Irving Jay Millman
Friends of Janet Millman

Mrs. Lorene Moore
Brent and Marsha Wohlford

Rosemary Mossman
Ms. Judith A. Sheets

Miss Rosemary C. Muhlke
Mr. and Mrs. Marty Hughes

Carolyn Neely
Jan Scott

Mr. Willard Nowatski
Mrs. Marjorie Schuppan

Lucinda and Paul Nuss
Ms. Colleen A. Potratz

George Patrick O'Toole
Members' Board of the Missouri Botanical Garden

Mr. T. Cade Parker
Ms. Ann Ferris
Ms. Virginia Knabe
Ms. Valerie Melville

Mr. Kenneth W. J. Paul
Mr. Jack Barnett
Mr. Arnold Brody
Mr. and Mrs. William E. Brush, Sr.
Ms. Catherine Burns
Mr. and Mrs. John D. Castagno
Lauren and Joe Crippes Family
Mr. and Mrs. Steve Erickson
Mr. and Mrs. Donald J. Green
Ms. Miriam E. Heinicke
Alvin and Marilyn Horst
Mr. Harold E. Knight, Jr.
Mrs. Nancy Knight
Mrs. Linda Lehmann
Ms. Brenda Lewis
Mrs. Betty Marting
Mr. and Mrs. Mark R. Moschner
Parkway Central Staff
Mr. and Mrs. John Ryal
Dr. and Mrs. Neal J. Schopp
Ms. Janne Sollecito
Mrs. Marilynn Stabenow
Mr. and Mrs. Milton E. Stohs
Webster Groves High School Special District Staff
Webster Manor II Association

Mr. Daniel Pfeifer
Don and Anne Hemmer

Mr. G. John Plagemann
Mrs. Helen B. Gross

Mrs. Marlene F. Poger
Mrs. Ann Case

Ms. Karen J. Reavis
Mr. and Mrs. Richard G. Crandall
Mr. and Mrs. Bob Hoffmann
Mr. George C. Hubel
Ms. Jeanne Johnson
Mrs. Amanda R. Kiel
Mr. and Mrs. Randy Kilper
Mr. and Mrs. John B. Koenig
Ms. Kathleen Kohlbry
Mrs. Laura J. Seymour
Mr. and Mrs. Bill Slantz
Mr. William P. Slattery
Mr. and Mrs. Mark R. Thomas
Mr. and Mrs. Gerald Van de Ven
Mr. and Mrs. Benny Vitale

Mr. Donald Reckert
Mr. Darryl Justus

Mrs. Fran Reckert
Mr. Darryl Justus

Mr. Fred J. Risberg
Belle Coeur Garden Club

Mrs. Jacquelyn J. Rockamann
Mr. and Mrs. John McCormack

Mrs. Margaret Roman
St. Louis Science Center, Science and Galleries Department

Mrs. Margaret Rosenthal
Gayblades Garden Club

Mrs. Gloria Rossbach
Mr. and Mrs. Richard J. Pandorf

Mrs. Rosalind H. Rovak
Dr. and Mrs. Edward Weiss

Mr. Finbar T. Ryan
Mr. and Mrs. David Meyer

Mr. Harley Sartain
Mr. Robert E. Hamilton, Jr.

Mrs. Mary M. Sauer
Ms. Lenore Marko

Mr. Ken Schroeder
Mr. and Mrs. Roger H. Volk

Mr. Benjamin Schuyler
Dr. and Mrs. Michael L. Finkel
Dr. and Mrs. Michael Rumelt

Mrs. Gertrude Schwaiger
Ms. Jane Goldberg

Mr. Malvern A. Schweig
Mrs. Sue Bartelt

Mrs. Virginia L. Scott
Dr. Rosalyn Schultz and Mr. Giuseppe Pirone

Mrs. M. Susan Serkes
Mr. and Mrs. Daniel L. Gravens

Mr. A. Lee Shapleigh II
Mrs. Jane Shapleigh Mackey
Mr. and Mrs. Mark A. Sedgwick
Mr. and Mrs. Rolla K. Wetzel

Mr. George N. Shimamoto
Ms. Sandra J. Albertsmeier
Mrs. Virginia Baker
Mr. and Mrs. Frank A. Buchmeier, Jr.
Mr. and Mrs. John E. Cramer III
Mr. James L. Deters
Mr. and Mrs. Michael Ferretti
Mr. and Mrs. Don Freber
Mr. George K. Hasegawa
Mr. and Mrs. Harry H. Hayashi
Mr. and Mrs. James I. Hayashi
Mr. and Mrs. R. Allan Hinton
Dr. and Mrs. Richard H. Mitchell
Mrs. Nobuko Anne Mitori
Mr. Steven K. Mitori
Mr. and Mrs. Harold O. Piening, Jr.

Mr. Thomas J. Sicking
Mrs. and Mrs. Louis Ferronato
Mr. Earle B. Leadlove

Mr. John Sonnenberg
Mr. and Mrs. George J. Solovic

Mrs. Jessie L. Stinnett
Carfax
Mr. Charles Hoover
Ms. Christine Litwiller

Mr. Richard C. Suess
Ms. Jayne Ganschinietz

Mrs. Edith Noble Thatcher
Mr. and Mrs. James Clark, Jr.

Doris Tillinger
Mr. and Mrs. Robert M. Mielziner, Jr. and Family

Mrs. Joan M. Turner
Mrs. Lilly Ann Abraham

Mr. Alan C. Umbright, Sr.
Alan and Karen Umbright
Pat and Ken Cook
Lisa and Kent Nevitt
Nancy and Todd Bischoff and grandchildren

Mr. Ralph G. Van Allen
Ms. Kelly Brothers
Continental Products, Inc.
Dr. and Mrs. Harry T. Duffy
Mr. and Mrs. Harold L. Flowers
Mr. and Mrs. Thomas W. James, Jr.
Mr. and Mrs. Parker L. Laverty
Mr. and Mrs. George Martin
Ms. Jeanne Morrel-Franklin
Mrs. Shauna Thompson
Mr. and Mrs. Thomas F. Withrow

Mrs. Genevieve E. Van Buren
Traci Bennett

Mrs. Alma F. Weber
Mr. and Mrs. Timothy J. Ard
Mr. and Mrs. Garry L. Chaput
Mrs. Deborah A. Nothum
Mr. and Mrs. Gregg Scott
Mr. John A. Wagner

Dr. David E. Weber
Ms. Jackie Juras
Mr. and Mrs. Bill Szedlar

Mrs. Dianne Webster
Ms. Carol A. Gruen

Ms. Brenda Winslow
Mrs. Jeffrey L. Boock

Corporate Partner Principal Profile: Emerson

The Corporate Partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater St. Louis metropolitan region.

Corporate Partners at the Principal level offer support and leadership at the highest level, and the Garden is recognizing their contributions in a series of Bulletin profiles.

Emerson is one of the highest-profile corporate benefactors in St. Louis, particularly in the areas of culture and the arts. A strong supporter of the Missouri Botanical Garden for the past 30 years, Emerson has cumulative giving in the top tier of donorship.

Founded as Emerson Electric, Co. in St. Louis in 1890, Emerson today is the largest publicly traded company in Missouri. Emerson is a "diversified global manufacturer" with businesses in network power, process management, industrial automation, climate technologies, and appliance and tools. With approximately 128,000 employees worldwide, Emerson enjoyed record sales of $20.1 billion in 2006.

Emerson's involvement with the Garden includes leadership contributions to many major projects:

- Presenting sponsor for last year's exhibition, *Glass in the Garden: Chihuly at the Missouri Botanical Garden.*
- Funds toward purchase of the Chihuly Missouri Botanical Garden Blue Chandelier, 2006 as a permanent part of the Garden's collection.
- An early supporter of the Sophia M. Sachs Butterfly House, Emerson was a major sponsor of Wing Ding 2004 and made a capital gift to name the Emerson Lakeside Terrace.
- Major sponsor of the first-ever Chapungu exhibit in the United States, here at the Garden in 2001.
- Emerson also participates in the matching gift program, making them one of the largest funders through their donations to match Emerson employee gifts to the Garden.

"Emerson is a model corporate citizen for the St. Louis community and has been a dependable supporter of the Garden for three decades," says Garden President Dr. Peter H. Raven. "We are fortunate to benefit from their generosity."

For more information about the Corporate Partners program, call (314) 577-0217.

photo by ©Kevin Wolf

Sophia M. Sachs Butterfly House Pavers

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Pavers donated to the Sophia M. Sachs Butterfly House in March/April 2007

Pavers

William H. Bartley II
June C. Bartley

Barrett Emerson Butler
Doug and Patti Reisinger

Lauren Mackenzie Butler
Doug and Patti Reisinger

Jenna Barbra Emerson
Doug and Patti Reisinger

Barbra Ellen Foster
Doug and Patti Reisinger

Bernadine Fredlich
Terah Kitcher

Ann Johnston
Betty Manlin

Cody, Nathan, and Chelsea Neal
Mr. and Mrs. Ron Dressel

Julie and Scott Schnuck
James and Catherine Berges

Susan Burris Smith
Harley M. Smith

Madison N. Tucker
Friends at Missouri Baptist Medical Center 6th Floor

Alexa Christine Tullmann
Rick, Toni, Matthew, and Max Vogel

Bette and Joe Vila
Joseph A. Vila

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from March/April 2007.

Bronze Signature Bricks

Vince Aversa
Mr. Richard L. Winter
Mr. and Mrs. G. William Weier

Joan and John Birchler
Mr. and Mrs. John Birchler

Aunt Peg Callahan
Ms. Peggy Callahan

Leroy G. Cowan
Mrs. Linda Moroney

Betty Egendoerfer
Friends and Family of Mrs. Grace (Betty) Egendoerfer

Dave, Ruth, Caralyn, and Greg Harmon
Mr. and Mrs. David C. Harmon

Ellen Hoffmann
Mr. Charles R. Hoffmann

Steve and Nina Kindrick
Mr. Steven J. Kindrick

Frances Farnam Rubin
Mr. and Mrs. Louis B. Rubin

Engraved Clay Bricks

Susan Jane Bandy
Friends and Family of Susan Jane Bandy

Morey Gardner MD
St. Mary's Health Center Department of Internal Medicine

Robert K. Royce MD
Dr. M'Liss A. Hudson

Dorothy B. Morris
Family of Dorothy B. Morris

Gertrude and Evan Tessier
Mid County Orthopedic Surgery and Sports Medicine

Pat and Jane Tracy
Mrs. Jane Tracy

William and Barbara Vetter
The Vetter Family

Missouri Botanical Garden

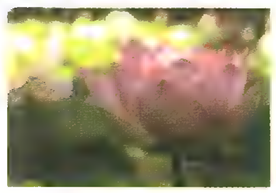
4344 Shaw Blvd • St. Louis, MO 63110 • www.mobot.org

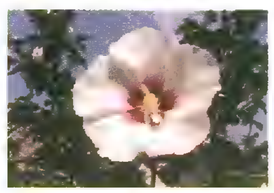
July 2007

average temperature: 80.2
average monthly precipita[illegible]

What's in bloom?

download the podcast at www.gardeninghelp.org

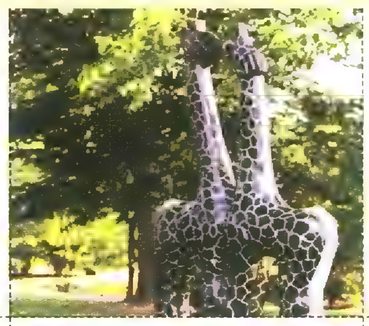

Sacred Lotus


Rose of Sharon

Sunflower

Mimosa

Daylily

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	02	03	Independence Day 04 whitaker music festival missouri botanical garden Flying Mules. See p. 6.	05 **Chapungu** See p. 9. 5–9 p.m., $		07 Adventures 11 a.m. to 2 p.m. ■ Steve Henry signs *60 Hikes Within 60 Miles: St. Louis.* 12–2 p.m. GGS
08 ■ Camp BUGaloo. BH $☎	09 ■ Camp BUGaloo. BH $☎	10	11 whitaker music festival missouri botanical garden Wil Maring. See p. 6.	12 **Chapungu** See p. 9. 5–9 p.m., $	13	14 Adventures 11 a.m. to 2 p.m. ■ Donna Bateman signs *Deep in the Swamp.* 12–2 p.m. GGS
15 ■ Camp BUGaloo. BH $☎	16 ■ Camp BUGaloo. BH $☎	17 ■ TGH Children's Tea, 1 p.m. See p. 8. ★★Young Friends Chapungu, 6–9 p.m. See p. 5.	18 whitaker music festival missouri botanical garden Baker-McClaren Band. See p. 6.	19 **Chapungu** See p. 9. 5–9 p.m., $	20 ★★ Members' Family Picnic, 6–9 pm. See p. 8.	21 Adventures 11 a.m. to 2 p.m., BH ■ Henry Shaw Cactus Society show and sale ■ Don Corrigan signs *Show Me… Natural Wonders.* 12-2 p.m. GGS ■ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m.
22 Henry Shaw Cactus Society show and sale ■ EarthWays Tours. EWC. 11 a.m., noon, 1, and 2 p.m.	23 ■ Henry Shaw Cactus Society show and sale	24 Henry Shaw's birthday. See p. 6. ■ Henry Shaw Cactus Society show and sale	25 whitaker music festival missouri botanical garden Melissa Neels. See p. 6. ★★ Members' Day: Tour the Butterfly House. See p. 8. ■ Henry Shaw Cactus Society show and sale	26 **Chapungu** See p. 9. 5–9 p.m., $ ■ Henry Shaw Cactus Society show and sale	27 ■ Henry Shaw Cactus Society show and sale	28 Adventures 11 a.m. to 2 p.m. ■ Henry Shaw Cactus Society show and sale
	30	31				

All events take place at the Garden unless otherwise noted.

BH = Butterfly House, (636) 530-0076
EWC = EarthWays Center, (314) 577-0220
GGS = Garden Gate Shop, (314) 577-5137
LS = Little Shop Around the Corner, (314) 577-0891
SNR = Shaw Nature Reserve, (636) 451-3512

★★ denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required
■ Guided walking tours, 1 p.m. daily
■ Early morning walking, every Wed. and Sat. from 7 a.m.

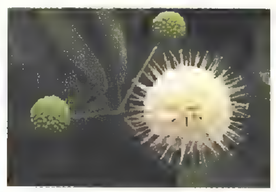
August 2007

average temperature: 78.25
average monthly precipitation: 2.98 in.

What's in bloom? download the podcast at www.gardeninghelp.org

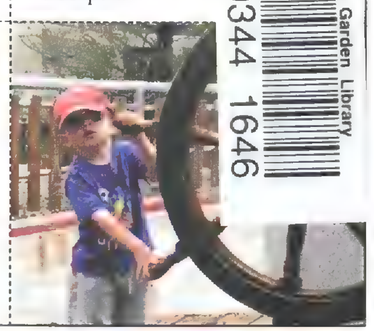
Butterfly Bush

Fountain Grass


Buttonbush

Canna

Waterlily

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	CHAPUNGU Silent Auction and Preview Dinner 31 Preview Night 5 to 9 p.m.		01 whitaker MUSIC FESTIVAL missouri botanical garden Peter Mayer. See p. 6.	02 CHAPUNGU See p. 9. 5–9 p.m., $	03 	04 ■ GREEN ADVENTURES 11 a.m. to 2 p.m. ■ MBG Daylily Society sale, 9 a.m. to 5 p.m.
05 ** Member Orientation, noon. See p. 8. ■ MBG Daylily Association sale, 9 a.m. to 5 p.m. ■ Orchid Society plant auction, 12 to 5 p.m.	06	07 	08 whitaker MUSIC FESTIVAL missouri botanical garden Gumbohead. See p. 6.	09 CHAPUNGU See p. 9. 5–9 p.m., $	10	11 ■ GREEN ADVENTURES 11 a.m. to 2 p.m. ** Members' Day: Amy Stewart signs *Flower Confidential*. See p. 8. ■ BUZZ. BH, 10 a.m. $☎
12 ■ Camp BUGaloo. BH $☎	13 ■ Camp BUGaloo. BH $☎	14	15 ■ Garden evening hours till 8 p.m. See p. 6.	16 CHAPUNGU See p. 9. 5–9 p.m., $	17 	18 ■ GREEN ADVENTURES 11 a.m. to 2 p.m., EWC Best Homegrown Tomato Challenge. See p. 6. ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m.
19 ■ EarthWays Tours. EWC. 11 a.m., noon, 1 and 2 p.m. ■ Camp BUGaloo. BH $☎	20 ■ Camp BUGaloo. BH $☎	21	22 ■ Garden evening hours till 8 p.m. See p. 6.	23 CHAPUNGU See p. 9. 5–9 p.m., $	24 ■ Membership Weekend. See p. 6.	25 ■ GREEN ADVENTURES 11 a.m. to 2 p.m. ■ Membership We See p. 6.
26 ■ Membership Weekend. See p. 6.	27	28 	29 ** Young Friends: Sumo, Sake, and Sushi. 6:30 p.m. See p. 5. ■ Garden evening hours till 8 p.m. See p. 6.	30 CHAPUNGU See p. 9. 5–9 p.m., $	31	

Missouri Botanical Garden Library
3 1753 00344 1646

photos by Carol Gravens, Mina Hall, Cindy Lancaster, Josh Monken, Tammy Palmer, Thomas Pope, Ryan Rumberger, Chris Starbuck, Leshe Wallace, Erin Whitson, and Kevin Wolf.

Contents

News 3
Events 6
Membership 8
Chapungu 9
Birding 10
Gardening 11
Garden at Large 14
Volunteers at the Garden 16
From the field: Tibet 18
Tributes 19
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Education ..... (314) 577-5140
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Institutional Advancement .... (314) 577-9500
Hort. Answer Service ..... (314) 577-5143
Volunteer ..... (314) 577-5187

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Beer for the Wedding* by Gift Muchenje. Photo by Leslie Wallace.

©2007 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

GARDEN GATE SHOP
(314) 577-5137
9 a.m. to 5:30 p.m. daily.
Members 10% off everyday,
20% off on members days.

LITTLE SHOP AROUND THE CORNER
(314) 577-0801
10 a.m. to 4 p.m. Tues.
Antiques and collectible
Donations welcome.

fossafros

CATERING ST. LOUIS
(314) 577-0200
Now booking 2007-08
parties and events
at the Garden.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166–0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

QK1
.M5 93
v.2

MISSOURI BOTANICAL GARDEN

bulletin

September/October 2007 Vol. 95, No. 4

CHAPUNGU *Nights*

From the President...

It's back to school time for us...time to learn new skills and hobbies with a course from the Garden's Adult Education program...time to make plans for final trips to the Doris I. Schnuck Children's Garden before it closes for the season...time to see about field trips to the Garden, and our family of attractions.

When Henry Shaw opened his country home to the public in 1859, it was a very young garden. Today, these old stone walls enfold mighty trees planted as saplings under Shaw's direction, and the education and outreach activities of the Garden have grown beyond these original grounds to include a family of attractions throughout the St. Louis metro area. The Sophia M. Sachs Butterfly House, EarthWays Center, Litzsinger Road Ecology Center, and Shaw Nature Reserve all offer their own unique opportunities for education and family fun.

This September, visit the ever-popular Japanese Festival, the oldest in the nation. In October we welcome the "sweet sixteen" of the Best of Missouri Market. As we enter the final months of the *Chapungu: Nature, Man, and Myth* exhibition, I encourage you to visit and revisit this striking exhibit. Thursday evening Chapungu Nights are a lovely way to see the sculptures and enjoy the Garden at twilight. The last Chapungu Night is September 27, but visitors on September 13 will receive an added treat: a student art exhibit of work created by the participants in the Chapungu sculpture workshops.

The power and majesty of the Chapungu sculptures, hewn by hand from solid stone, is a fitting metaphor for our mission, "to discover and share knowledge about plants and the environment in order to preserve and enrich life." It is slow, hard work, but the end result is a world of great beauty and harmony. As the Chapungu sculptor Bernard Takawira wrote about his sculpture *Hanging on a Leaf*: "All of life hangs on the leaf. The oxygen we breathe and the food that sustains us. All come from the leaves."

Come see the beautiful colors of the fall leaves at the Garden this October,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

Board of Trustees

Mr. Nicholas L. Reding, *Chair*
Carolyn W. Losos, *Vice Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Prof. Sir Peter R. Crane FRS
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. E. B. Eckelkamp, Jr.
Dr. Thomas E. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. John E. Klein
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr.
Cheryl Morley
Mr. Jai Nagarkatti
Mr. Scott C. Schnuck
Dr. Henry Gerard Schwartz, Jr.
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Keinath, Jr.
Mr. Ralph Korte
Mr. Robert F. Kresko
June M. Kummer
Mr. E. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn F. Newman
Mrs. Linda O'Hara
Mr. William R. Orthwein, Jr
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony L. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mr. Jack E. Thomas, Jr.
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Carol Squires, *President*

photo by Linda Wallace and courtesy MBG Archives

Bamboo Removal for a Good Cause at the Gatehouse

In July, Garden horticulturists removed more than half of a grove of Yellow groove bamboo (*Phyllostachys aureosulcata*) surrounding a small structure known as the Cleveland Avenue Gatehouse. The removed plant matter went to a good cause: the "Zoo pile." For the last five years, the Garden has participated in a "browse" program with the St. Louis Zoo. "Browse is an increasingly recognized need for herbivores," says Dr. Ellen Dierenfeld of the St. Louis Zoo. "We hope to expand our knowledge of herbivore nutrition, and it's also behavioral enrichment for all animals." The Garden maintains a Zoo pile, with clippings of specifically requested plants and shrubs, and about once or twice a week, Zoo employees pick up the greenery. The bamboo was distributed to the elephants, lemurs, and okapis, among other animals.

So invasive had this stand of bamboo grown since its original planting over 40 years ago at the Garden, that many visitors never realized there was a building behind it. The Cleveland Avenue Gatehouse was constructed in 1895 and designed by St. Louis architect George I. Barnett, who also designed the Tower Grove House, Town House, and Linnean House. Built in accordance with Henry Shaw's will, the Gatehouse was created as a residence for the groundskeeper of the Mausoleum area, Museum Building, and surrounding area now part of the Victorian District. According to the 1895 annual report, the board of trustees also hoped that the occupant might act as a gatekeeper for overflow attendance. The first resident of the Gatehouse was Mausoleum groundskeeper Charles Schmidt and his wife in 1895. The last residents were retired Garden rosarian and superintendent Alfred Saxdal and his wife Priscilla. The house has been vacant since 2001, but will be redeveloped in conjunction with the new Lichtenstein Victorian District project.

Left: Horticulturist Ilaz Dalipi removes bamboo beside the Cleveland Avenue Gatehouse. The bamboo was used by the St. Louis Zoo as animal "browse."

Right: The Gatehouse shortly after its construction in 1895.

MISSOURI BOTANICAL
AUG 2 7 2007
GARDEN LIBRARY

"It's extra work for our staff to sort the material, but it's worth it to help the animals."

– James Cocos,
Vice President of
Horticulture

Welcome Paul Schnabel

The Garden's Institutional Advancement division is pleased to welcome Paul Schnabel as Vice President of Major Gifts. Schnabel comes to the Garden with over 25 years of development and fundraising experience, most recently for the Carnegie Museums in Pittsburgh, Pennsylvania, where he was engaged in a $150 million fund drive. In St. Louis, Schnabel previously worked for Saint Louis University and Mary Institute and Saint Louis Country Day School. A Boston native, Schnabel is now, after 16 years in St. Louis, an unrepentant Cards fan. His wife Cindy is a librarian with the St. Louis County Library. They have a daughter, Julie, age 18, and a son, Sam, age 14. Schnabel is enthusiastic about his new role at the Garden:

"The Garden is an absolute treasure for St. Louis and an important international institution," says Schnabel. "My goal is to help our friends and supporters understand how their financial support can preserve and strengthen the Garden for future generations and make a lasting impact on plants and the environment."

New Sculpture Garden in Downtown St. Louis

In June, the Gateway Foundation announced a partnership with the City of St. Louis to create a public sculpture garden on a 3-acre section of the Gateway Mall in downtown St. Louis. The free "Urban Garden" will be located between Eighth and Tenth and Market and Chestnut streets and will feature 20 to 25 pieces of sculpture by internationally renowned artists, fountains, and plantings selected and maintained by the Missouri Botanical Garden. Scheduled completion is summer 2009. "As we approach the Missouri Botanical Garden's 150th anniversary in 2009, we are proud to participate in this wonderful new attraction for downtown St. Louis," says Garden President, Dr. Peter H. Raven.

Corporate Partner Principal Profile: Schnuck Markets, Inc.

The Corporate Partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater St. Louis metropolitan region.

Corporate Partners at the Principal level offer support and leadership at the highest level, and the Garden is recognizing their contributions in a series of Bulletin profiles.

Schnuck Markets, Inc. was founded in St. Louis in 1939 by Edwin and Anna Schnuck and sons Donald and Edward. Today, the third generation of Schnucks presides over the company, operating 100 stores in Missouri, Illinois, Indiana, Wisconsin, Tennessee, Mississippi, and Iowa, employing over 15,000 people. Schnucks ranks 87th on the list of the nation's 100 largest family-owned and operated companies.

With a strong presence in the St. Louis region—64 stores and over 10,000 employees are based here—Schnucks has a very active community role. It has been a strong supporter of the Garden for years, notably as the lead sponsor, since 2004, of the Garden's annual Best of Missouri Market. Schnucks often provides floral arrangements and refreshments for Garden events. The company has supported the Garden's capital campaigns over the years as well.

Schnucks Chairman and Chief Executive Officer, Scott C. Schnuck, served as Chair of the Missouri Botanical Garden's board of trustees for two years through December 2006. During his tenure, the Garden opened the new Doris I. Schnuck Children's Garden, one of the most exciting new attractions in the Garden's history, with a lead gift generously donated by the Schnuck family. Scott was awarded the Garden's highest honor, the Henry Shaw Medal, in 2006, and continues to serve as a Garden trustee.

"We are very grateful for Schnuck Markets' generous and sustained donations of both financial resources and leadership," says Garden President Dr. Peter H. Raven.

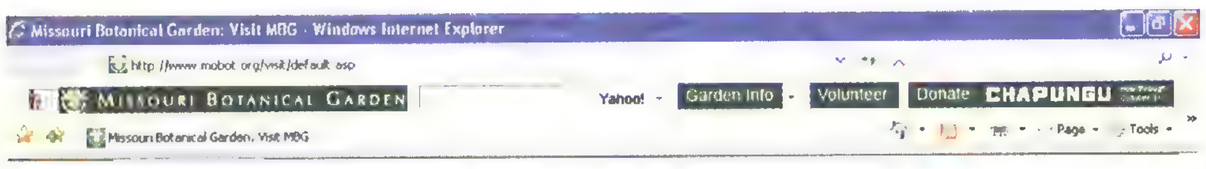
photo by Sarah [illegible]

Thank You, Iris Society!

The Greater St. Louis Iris Society President Nyla Hughes, accompanied by Jim Morris, a lead volunteer for the MBG Iris Society (on right), presented the Garden's Vice President of Horticulture James Cocos and Senior Horticulturist Jason Delaney (on left) with a donation generated from their annual plant sales. All proceeds benefit the Garden's Alice Hahn Goodman Iris collection.

In memoriam: Liz Claiborne, 1929–2007

Clothing designer Liz Claiborne died of complications from cancer on June 26, 2007. Ms. Claiborne was best known for her affordable, professional clothes for working women. When she retired from Liz Claiborne, Inc. in 1990, it was the largest women's apparel company in the country, with $1.4 billion in sales. Following her retirement, Ms. Claiborne and her husband Arthur Ortenberg, co-founder of Liz Claiborne, Inc., established a charitable foundation for the conservation of nature and the amelioration of human distress. The Liz Claiborne/Art Ortenberg Foundation funded several of the Missouri Botanical Garden's science and conservation efforts, including botanical training programs for local people in Tanzania and Bolivia, scholarships for graduate students from Madagascar, and the Jatun Sacha preserve's biodiversity garden in Ecuador, among other projects. In 1999, Ms. Claiborne and Mr. Ortenberg were awarded the Henry Shaw Medal for their extraordinary contributions to conservation and sustainability.



Help the Garden As You Search the Internet!

Did you know every time you search with Yahoo, you could be raising money for the Missouri Botanical Garden? Visit the Garden's website—www.mobot.org—and read about the new Missouri Botanical Garden Toolbar. It's easy to download, non-intrusive (it doesn't replace anything), and helps keep you up-to-date with easy access to Garden programs and services. Best of all, every time you search the Internet with your new toolbar, a donation will be made to the Garden. The Garden has taken great lengths to ensure that this service is safe for you to use, no matter your level of computer savvy. Raising money to support the Garden has never been easier. Visit www.mobot.org, download the bar, and start searching today!

Encyclopedia of Life presentation

Thursday, September 13, 4 p.m., Shoenberg Theater

In the last issue of the *Bulletin*, we reported on the exciting new Encyclopedia of Life (EoL) project, an unprecedented global effort to document all life on Earth and to make this information available, free to all, on the Internet. The Garden is a partner along with the Field Museum, Harvard University, the Smithsonian and others, in making this happen. On September 13, Dr. Jesse H. Ausubel, director of Rockefeller University's Program for the Human Environment http://phe.rockefeller.edu/index.html, and chairman of the EoL steering committee, will speak at the Garden on the EoL program, its progress and goals. Free with admission. The general public is welcome.

photo courtesy Carl and Carolyn Fichtel

Donor Profile: Carl and Carolyn Fichtel

What do astronomy and gardens have in common? Just ask retired NASA astrophysicist Carl Fichtel: "They both offer beauty and enhancement of knowledge through research!" Originally from St. Louis, Carl received his Ph.D. from Washington University then headed east to the Goddard Space Flight Center in Maryland. He retired in 1997, but has always remembered his roots: "My father had a tremendous interest in gardening, as did my mother and grandmother. I have many happy memories of visits to the Missouri Botanical Garden."

Today, Carl is an avid gardener, growing daylilies, iris, azaleas, native plants, and dwarf evergreens. His wife Carolyn has a deep interest in photography including that of gardens. Carolyn and Carl support the Missouri Botanical Garden in a variety of ways: they are family level members, members of the Heritage Society, and have given two charitable gift annuities. In the spring of 2007, they expanded their support by dedicating the North Victorian Border Garden.

"We had given gift annuities, and I'd always wanted to do more in memory of my parents. Last spring, we decided to name a garden for the family." The newly named Eleanora Fichtel, Edwin Fichtel, and Mamie Gutsch North Victorian Border Garden is located on the east side of Tower Grove House and includes various unique evergreens, among other plantings. Best of all: "It provides a tie from my family to the Garden, which I've always loved since I was a small child," says Carl.

Carl and Carolyn make frequent trips to the Garden, appreciating each season's variety of plants and landscapes. And with each visit, they appreciate the fact that their gift will help future generations find beauty and knowledge at the Garden. If you'd like to find out more about how you can support the Garden, please call (314) 577-9455.

Events

Opening festivities at the Japanese Festival.

Japanese Festival

September 1–3, 2007

For over three decades, the Japanese Festival has brought the art, culture, history, food, and fun of Japan to St. Louis. Visitors to the Japanese Festival 2007 will enjoy:

- New! Illustrated talks on geisha by Dr. Liza Dalby, the only non-Japanese woman ever to be accepted into this mysterious world.
- sumo wrestling and taiko drums
- dancing, martial arts, anime screenings, candlelight walks, and more!

Visit www.mobot.org to download the complete schedule. *Sponsorship provided by Emerson, Novus International, Inc., Central States Coca-Cola Bottling Company, and other friends of the festival.*

Hours: Saturday and Sunday, September 1 and 2, 10 a.m. to 8 p.m. with candlelight walks and anime screening ending at 10 p.m. Monday, September 3, 10 a.m. to 5 p.m.

Admission: $10 adults; $7 seniors (65+); $3 Garden members and children ages 3–12; Garden members' children (12 and under) and children under three are free. Avoid the lines: purchase tickets in advance online at www.mobot.org. Advance ticket holders can walk right past the line into the Ridgway Center and proceed upstairs to the festival.

Members' Events

Grandparents' Day
Sunday, September 9, 1 to 3 p.m.,
Children's Garden and Cohen Amphitheater
Enjoy a fun-filled afternoon with your grandchild. Make a photo button, enjoy a snack, receive a treat from the St. Louis Floral Network, and explore the Children's Garden on a scavenger hunt. Free for members, but registration is required. Please call (314) 577-9570.

Members' Day: Herb Garden Tour
Tuesday, September 18, 11 a.m., meet in the Shoenberg Theater
Join the experts from the St. Louis Herb Society on a guided walking tour of the Herb Garden beside the Tower Grove House.

Tower Grove Auxiliary Bus Trip to Springfield, IL
Tuesday, September 25, 7:30 a.m. to 5:30 p.m.,
meet at the Ridgway Center parking lot
Ride along on a day trip to the Abraham Lincoln Presidential Museum and Library and Lincoln Home National Historic Site. Tickets are $50 and include a boxed lunch at the museum. Call (314) 577-5154 by Tuesday, September 18, to reserve your place.

Members' Day: Fall Color Walk
Friday, October 19, 10 a.m. to noon,
Shaw Nature Reserve, meet at the Bascom House
Enjoy the beauty of fall prairie and woodland color at the Shaw Nature Reserve. This one-mile walking tour ends at the Maritz Trail House, where refreshments will be served. (Wilderness Wagon will be available for those who can't easily make the hike.)

Ghouls in the Garden
Sunday, October 28, 1 to 3 p.m., Garden grounds
Come to the Garden in your costumes and trick-or-treat with us. Enjoy goodies, face painting, and lots of fun. Our final destination will be the Children's Garden, where you can find "where the wild things are!"

Members' Day: Holiday Decorating
Friday, November 2, 11 a.m., Shoenberg Theater
Save the date for this yearly holiday favorite. Schnuck Markets, Inc. florist and event coordinator Rhonda Lynn Moeckel shares success stories and tips to make your home festive and welcoming.

Member Orientation & Tour
Saturday, November 3, noon, Shoenberg Theater
Get the lowdown on events, discounts, classes, and all the benefits membership offers. Participants receive Bonus Bloom passes, and discounts in Sassafras café and the Garden Gate Shop. Bring along your friends who might want to become members at the Garden!

Victorian Holiday Evening at the Garden
Saturday, December 1
Save the date for this special evening at the Garden.

**During Members' Days and Events, members enjoy discounts of 10 percent in Sassafras and up to 20 percent in the Garden Gate Shop and Little Shop Around the Corner.*

photos by Erin Whitson

Visitors at the Best of Missouri Market shop, make kids' crafts, and sample goodies.

The sixteenth annual Best of Missouri Market® offers the wares of more than 120 outstanding Missouri artisans with entertainment for the entire family. It's food-festival-fun! Browse under the big tents to discover edible and artistic goodies from all over the state—from apple butter to zebra-painted garden art!

- Saturday morning early bird privileges for members with refreshments courtesy of Great Harvest Bread, Ronnoco Coffee, and Coca-Cola.
- Kids' Corner: decorate a pumpkin, make fresh apple cider, meet farmyard animals, milk a cow, and have your face painted. Home Depot provides a craft activity; Schnuck Markets sponsor donut decorating.
- Folk and bluegrass music by Cumberland Gap and the Ladue Mountain Boys.
- Free parking at the Shaw and Vandeventer lots, as well as Tower Grove Park. Complimentary shuttles.

Lead sponsorship by Schnuck Markets, Inc. Additional support provided by Central States Coca-Cola Bottling Company, Commerce Bank, AgriMissouri, Edward Jones, IR Climate Control Technologies/Hussmann Corporation, McBride & Son Homes, UniGroup, Inc. and Waterway Gas and Wash.

Hours: Saturday and Sunday October 6 and 7, 8:30 a.m. to 5 p.m.; 7 a.m. Saturday "early bird" shopping for members only.

Admission: $10 adults; $7 seniors (65+); $3 Garden members and children ages 3–12; Garden members' children (12 and under) and children under three are free. New and renewing members receive free passes.

Download a complete schedule at www.mobot.org after September 7.

A Place of Learning and FUN!

Where Are the Wild Ones? At the Children's Garden!

Sunday, October 28, 1 to 3 p.m.
Join us at the seasonal closing of the Doris I. Schnuck Children's Garden as we celebrate all things wild! Create your own wildflower seed packets as the Wild Ones Native Plant Society helps you collect seeds from our very own Children's Garden prairie to take home! Enjoy Wild Storytime; make a wild ruckus with natural noisemakers; and create wild crafts, such as a wildlife-habitat hat! Creep over to the General Store where spooky guys and ghouls will be on hand to conduct activities from the Hard Rot Café. Don't miss your last chance to have a Missouri Adventure before next spring. Included with Children's Garden admission.

The Doris I. Schnuck Children's Garden: A Missouri Adventure is devoted to the education and inspiration of the Garden's youngest visitors. Families who have visited the garden appreciate its 19th-century Missouri milieu: it places kids at a time when interaction with plant life was an everyday occurrence. Children who visit the Children's Garden learn about plants as food, medicine, clothing, and shelter, and have fun while doing so.

Plants still fulfill these functions in modern society—they are the basis of all life—but many children have too few opportunities for interaction with nature to fully comprehend this connection. In his book *Last Child in the Woods*, Richard Louv coined the term "nature-deficit disorder" to describe the human costs of alienation from nature, such as diminished senses, attention difficulties, and higher rates of physical and emotional disorders. The Doris I. Schnuck Children's Garden is designed to address this deficit, to provide a safe, educational space for children to interact in and with nature.

The Children's Garden features places and interactive elements to encourage play. Recent research suggests that play is very important, not only to children's physical development, but to cognitive, social, and emotional development as well. All of the interactive installations in the Children's Garden were thoughtfully designed to address specific areas of learning and development. Whether climbing the wall, crossing the rope bridge, or exploring the cave, children are developing balance, coordination, and confidence.

The Children's Garden is indeed a *garden*. Like any new garden, it will take about three to five years to fill in and become mature. In keeping with the Missouri Adventure theme, about 90 percent of the plants used here are Missouri native, making this area an excellent resource for visitors interested in local flora. Children, especially little ones ages 3 to 8, benefit from the stimuli of colors, scents, and textures of the garden's changing natural elements.

Saturdays, September 8, 22, October 13, 27; drop in 11 a.m. to 2 p.m., Children's Garden

Drop in at the Children's Garden any time between 11 a.m. and 2 p.m., no reservations needed!

Great Green Adventures are sponsored by the Macy's Foundation and the Trustees' Philanthropy Fund of the Fidelity Charitable Gift Fund.

Flytraps and Pitfalls (Sept. 8): Learn about carnivorous plants and create giant Venus flytraps of your own to take home.

Beetlemania: Lovin' Ladybugs (Sept. 22): Make a colorful ladybug sign for your room and release live ladybugs and follow them around the Garden.

Celebrate the Harvest (Oct. 13): See how the Osage Indians harvested and used their crops. Learn to grow a three-sisters garden, and take home seeds to start your own.

Bird Café (Oct. 27): Feeding the birds brings nature to your backyard. Make birdseed bells out of high-energy foods and watch as chickadees, nuthatches, and other small fat-eaters come to enjoy the feast.

Your Missouri Adventure

Thanks to careful planning, the Children's Gardens offers an abundance of different experiences, rewarding repeat visits. Just past the Ticketing Fort, children are invited to choose one of four paths. Of course, the paths crisscross and mingle, so that young explorers can choose to diverge at any time and investigate new sights and scenes.

photos by Josh Monken and Leslie Wallace

Settler's Path

Blaze a trail like Daniel Boone. Children reach new heights of balance and coordination, while learning all about plant-people interactions.

- Enter the General Store to see the various "foods" and "medicines" growing there. Older children can practice math skills by "purchasing" food and supplies for the journey west. Younger children use the baskets and bins to sort fruits or vegetables, colors and shapes.
- Maps in the Surveyor's Office speak to the history of land development. Look at the old maps of St. Louis and the Garden. How has the region changed?
- Teach your children about the dangers of invasive species in the Jail. Explain that these plants are under lock and key so they won't escape and threaten native species.
- In the Family Plot, the names on the headstones represent some of Missouri's endangered plants. Read the story sign with your child to learn what you can do to keep these plants from disappearing. Encourage older children to take rubbings of the headstones to research at home.

Botanist's Path

Like Henry Shaw, who founded the Missouri Botanical Garden, your children can learn to become champions of nature.

- Proceed through the Canopy Climb toward the Stump Station, where children can count the rings on the tree stump to determine its age. Help your child pull up the tree ring sections to see historic events in Missouri's history, then visit the root zone down below.
- Walk a few steps up into the Pollination Garden. Young children enjoy flying around like a busy bee, bird, beetle, or butterfly ringing the bells as they pretend to gather pollen from each flower. Encourage older children to puzzle through why hummingbirds have long beaks which allow them to pollinate tubular flowers.
- Step outside the hive and follow the fancy footwork to do the bee dance with your child. Explain that the tail waggle dance alerts hive mates to the distance and direction of the honey source.

Adventurer's Path

Mark Twain was one of America's great authors and humorists, as well as a steamboat pilot. This path explores the many native Missouri ecosystems he wrote about.

- Send your child sailing down the Spelunker's Slide. Did you know Missouri is the cave state? Look for evidence of plant and animal fossils, petroglyphs, and an abandoned fire ring.
- Cross over the busy river levee. Boomtown development required materials. At the Log Climb, explore with your children the impact that logging had on people and the landscape during the heyday of the steamboats.
- Pilot the Steamboat past snags and fallen trees through the treacherous Children's Garden River.
- Did you know that one Beaver Dam can help to create a new pond or lake? Check out the oxbow lake created by the beaver dam in the Wetlands area. It is the perfect place to point out wildlife such as insects, birds, and amphibians.

Discoverer's Path

Pretend to be explorers as you live the adventures of Lewis and Clark and Sacagawea.

- Imagine with your child that you are walking, riding, paddling, and sailing on an 8,000 mile journey to the west coast. Have them test their balance and endurance as they make their way down the precarious Rope Bridges.
- Visit the Osage Indian camp. The Osage planted vegetables which grow in harmony, such as corn, beans, and pumpkins. Ask your children what they think a typical day was like in the camp?
- Take a peek into the cool world of pond plants and animals at the Discovery Platform. Look for frogs, fish, tadpoles, dragonflies, water striders, ducks, and more!
- The Mississippi River has a series of 29 flat pools created by Locks and Dams to make navigation easier. Have your child pretend that they are the captain of a barge boat traveling downstream. Don't forget to have them call out to the lock operator to receive permission to lock through!

Volunteer

Volunteer Service Recognition

On Thursday, June 14, the Garden hosted the annual volunteer service recognition luncheon honoring volunteers with awards for special service and for their 10-, 20-, and 30-year commitments. This year, the Garden was also able to honor three very special 40-year volunteers with a proclamation from the mayor of St. Louis (see below). The Garden is deeply grateful to the volunteer corps, without whom we could not operate at current levels of international renown and community outreach.

Thirty-year volunteers: Susan Russell, Sue Oertli, Dr. Peter Raven, Sheila Hoffmeister. Not pictured: Ann Case and Rus Goddard.

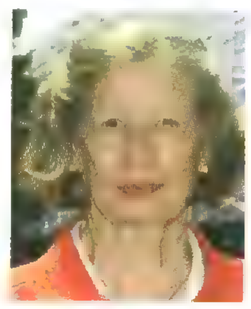
Twenty-year volunteers: Betty Guarraia, Wauneta Booth, Dr. Peter Raven, Irene Weisenhorn, Rosemary Armbruster. Not pictured: Jean Beck, Ellen Dubinsky, Rev. James Krings, and Maxine Schuler (deceased).

Ten-year volunteers: Susan Hackney, Mary Ellen Mann, Marjorie Courtney, Lena Annis, Elonda Munro, Lynda Cain, Kathy Beine, Jeanne Nowicke, David Alspaugh, Mary Ann Swaine, Dr. Peter Raven, Bill Hemberger, Jan Hermann, Tom Hardy, Freda Lohr, Nancy Gelb, Judy Duda, Don Lemp, Bob Kozielek, Ginger Weinel, Audrey Foley. Not pictured: Edward Bahr, Sally Cohn, Skippy Dennis, Sharon Greenberg, Cathy Hey, Barbara Johnson, Paul Johnson, Claire Linzee, Eva Moutrie, John Reiner, Ann Robison, Vickie Rosenkoetter, Alan Stentz, Candace Ulrich, and Susan White.

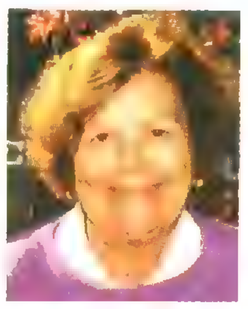
Here's to Forty Years!

It takes a special kind of commitment to dedicate 40 years of volunteer service, but this year the Garden was lucky enough to honor not one, but three, of these special volunteers. Even Mayor Francis Slay got in on the action, proclaiming June 14 as "Ellen Jones, Isabelle Morris, and Nora Stern" Day in the City of St. Louis. Let's meet these special individuals:

Ellen Jones:
A Garden member since 1960, Ellen served as president of the Members' Board from 1972 to 1974 and led the Tower Grove House Historical Committee for more than a decade with great skill. When asked how she first became involved at the Garden, she responds with a laugh "When I first moved to St. Louis from Georgia, I didn't know anyone and the plants and flowers were my friends!" What was a diversion quickly became a passion, and today Ellen notes that she is "honored to be a small part of such a world-class institution."



Isabelle Morris:
Isabelle started volunteering in the Education Division forty years ago and helped to create the Garden Guides, which is today the thriving Docent program. She served as president of the Members' Board from 1981 to 1983 and has been a member of the Tower Grove House Historical Committee since 1992, serving as vice chairperson since 1997. A Master Gardener, Isabelle tends her garden at home too. When asked what has inspired her 40 years at the Garden, she replies "I've enjoyed it! It has been a thrill to see the Garden grow during these years."



Nora Stern:
Nora has served as president of the Members' Board on three separate occasions. Her first term began in 1969 when the Garden's membership numbered around 2,000. Today, she sits on the board of trustees of a Garden which embraces 41,000 members. Nora is the co-creator of the wildly successful Best of Missouri Market®, begun with Ellen Dubinsky in 1991. "The Garden is like family for me," says Nora. "My mother participated in the Friends group before there was even a Membership program. It has been fascinating to be a part of the Garden's transformation."

Who is Strongest? by Dominic Benhura

CHAPUNGU

Closes October 31

"It's impossible not to be awed..."
– St. Louis Post-Dispatch

Don't miss the final months to visit the "glorious gallery" that is the Garden, and stroll among this extraordinary collection of 23 monumental stone carvings from Shona artists of Zimbabwe. "Chapungu" is the bateleur eagle, a protecting spirit of the Shona people, and the sculptures represent traditional myths and legends, as well as concern for nature and the environment. The exhibition of all new work never before seen in St. Louis has garnered rave reviews in the *St. Louis Post-Dispatch*, *Riverfront Times*, and other area publications.

Chapungu Nights
Thursday nights continue through September 27 with self-guided art walks and artist demonstrations amid the lush, late-summer Garden. Tickets are $5 for members ($10 for non-members). If you wish to purchase tickets online at the Garden's website (www.mobot.org), enter the members' password henryshaw for your discounted rate.

Chapungu Audio Commentary
Hear the artists speak about their work. Download a free audio-commentary podcast at the Garden's website (www.mobot.org). You may also use your cell phone to access the audio-commentary by dialing (408) 794-0870. (The call is free, but minutes will be applied per individual cell plans.)

Create Your Own Chapungu
No previous experience in art is necessary; class size is limited. Final workshops: September 4-8, and 18-22. The fee ($450; $500 for non-members) includes a sculpting stone from Zimbabwe, a set of tools to keep, and instruction by prominent Zimbabwean artists. For more details, call (314) 577-5117.

Student Art Exhibitions
See the amazing sculptures created by Chapungu workshop participants. Sculptures will be displayed in the tent on Linnean Plaza during the Chapungu Night on Thursday, September 13.

GARDENING

Learn a variety of fun new hobbies and skills through the Garden's Adult Education program.

Lifelong Learning in the Garden

Let the Garden help bring out your inner gardener, painter, photographer, decorator, chef, or wine connoisseur with our variety of Adult Education courses. Registration is now open for classes from August through March, and members enjoy discounts on all classes, so reserve your spot today. Classes include:

Gardening. From novice to pro, the Garden offers classes for all abilities. Learn gardening basics and organic techniques, shade gardening, lawn care, roses, orchids, and beyond.

Cooking. Learn to make elegant cocktail party foods just in time for the holidays, and sample cuisines from around the world. Wine enthusiasts can learn all about sparkling wines before the next dinner party.

Arts. Draw beautiful pastel landscapes, paint flower portraits. Join guest instructor and award-winning environmental photographer Ian Adams in an intensive, two-day photography workshop.

Crafts. Beautify your home with a fragrant, dried lavender wreath; create a handmade paper journal. Transform an ordinary garden leaf into a beautiful silver leaf pendant.

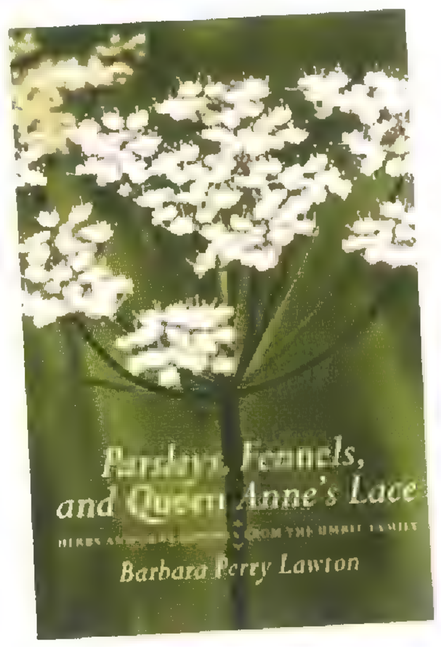
Relaxation. Yoga, evening strolls in the Japanese Garden, and more.

To register
Phone: (314) 577-9441
Online: visit www.mobot.org and click the link for Education "For adults."

Did You Get Yours?
Garden members should already have received the new Adult Education catalog in the mail. If not, please call (314) 577-9441 to request another.

New! Science Café: "Organic vs. Non-Organic"

Thursday, September 20, 6:30 to 9:30 p.m., Spink Pavilion
Science Café offers stimulating conversation in an informal setting each month. September features presentations by Bryan Hale, executive chef at Monarch Restaurant; Laurie Waters, KMOV-TV news anchor; and Brett Palmier, co-owner of Biver Farms Certified Organic Produce. $20 ($15 for Garden or Science Center members). Includes complimentary drink ticket and light snacks. Reservations are required, so please call (314) 289-4424. *Presented by the Saint Louis Science Center and the Garden.*



Umbel Family Ornamentals

We welcome another title from one of St. Louis's foremost garden writers, Barbara Perry Lawton, former editor of the *Bulletin*, and this one covers an intriguing family: *Parsleys, Fennels, and Queen Anne's Lace: Herbs and Ornamentals from the Umbel Family.*

"Here are popular vegetables, herbs, and spices in the same family as the world's most poisonous plants," writes Lawton in introduction, referring to the Umbel family which contains carrots, celery, parsley, and dill, as well as the hemlock that killed Socrates. The book catalogs the edible, ornamental, and medicinal species in the family, as well as umbel history and lore, pests and diseases, and botany.

Barbara Perry Lawton will sign copies of *Parsleys, Fennels, and Queen Anne's Lace* in the Garden Gate Shop on Saturday, September 8, from noon to 2 p.m.

What to do in your garden now...

clip and save

photo by Jack Jennings

September

all month

- ❑ Begin fall seeding or sodding of cool-season grasses. Seedbeds should be raked, de-thatched or core-aerified, fertilized, and seeded. Keep newly planted lawn areas moist, but not wet. Cool season lawns are best fertilized in fall. Make up to three applications between now and December. Do not exceed rates recommended by fertilizer manufacturer.
- ❑ Autumn is a good time to add manure, compost, or leaf mold to soils for increasing organic matter content.

week 1

- ❑ Cut annuals to provide vigorous plants for over-wintering.
- ❑ Dig herbs from the garden and placed in pots now for growing indoors this winter.
- ❑ Pick pears before they are fully mature. Store in a cool, dark basement to ripen.
- ❑ Sow seeds of radish, lettuce, spinach, and other greens in a cold frame.

week 2

- ❑ Plant spring bulbs (except tulips) as soon as they are available.
- ❑ Ready houseplants for winter indoors. Prune back rampant growth and protruding roots. Check for pests.
- ❑ Bring plants indoors a month before the heat is turned on.
- ❑ Pinch the top of Brussels sprout plants to plump the developing sprouts.
- ❑ Tie leaves around cauliflower heads when they are about the size of a golf ball.
- ❑ Keep broccoli picked regularly to encourage additional production.
- ❑ Top-dress lawns with compost or milorganite, best after aerifying.

week 3

- ❑ Poinsettias can be forced into bloom for the holidays if they are moved indoors now to a sunny windowsill. Each night, they must be kept in a cool, dark place where there is no light for 14 hours. Continue until proper color is achieved in 6 to10 weeks.
- ❑ Pinch off any young tomatoes that are too small to ripen to channel energy into ripening the remaining full-size fruits.
- ❑ Newly seeded lawns should not be cut until they are at least 2–3 inches tall.

week 4

- ❑ Divide perennials now. Enrich the soil with peat moss or compost before replanting.
- ❑ Divide peonies now. Replant shallowly in a sunny site.
- ❑ Lift gladiolus when their leaves yellow. Cure in an airy place until dry before husking.
- ❑ Check along peach tree trunks to just below the soil line for gummy masses cased by borers. Probe holes with thin wires to puncture borers.
- ❑ Sow spinach now to over-winter under mulch for spring harvest.

For additional information on plant care and gardening:
- *visit the Wm. T. Kemper Center for Home Gardening.*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org.*

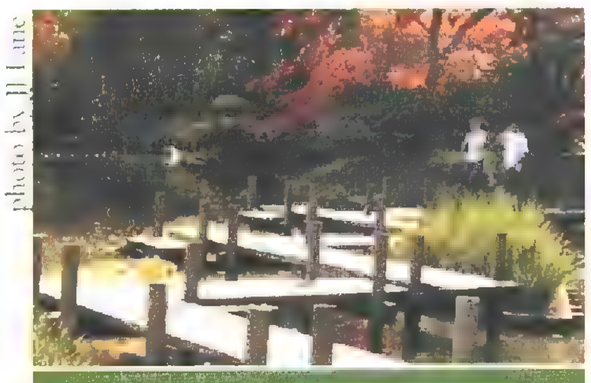


photo by JJ Lane

October

all month

- ❑ Plant spring bulbs among hostas, ferns, daylilies, or ground covers. As these plants grow they will hide the dying bulb foliage.
- ❑ Plant container-grown and balled-and-burlapped trees and shrubs now. Loosen the soil in an area five times the diameter of the root ball before planting. Mulch well after watering. Continue watering, especially evergreens if soils are dry.
- ❑ Store apples in a cool basement in old plastic sacks that have been perforated for good circulation.
- ❑ Sow cover crops such as winter rye after crops are harvested.

week 1

- ❑ Christmas cactus, potted azaleas, and kalanchoe may be left outdoors until night temperatures drop to 40° F.
- ❑ Continue harvesting tender crops such as winter squash and pumpkins before frost. For best storage quality, leave an inch or two of stem on each fruit. Dig sweet potatoes before a bad freeze.
- ❑ Gourds should be harvested when their shells become hard or when their color changes from green to brown.
- ❑ Cover tender plants with sheets or lightweight fabric covers to protect from frost.

week 2

- ❑ Cannas and dahlias can be dug when frost nips their foliage. Allow the plants to dry under cover in an airy, frost-free place before storage.

week 3

- ❑ Transplant deciduous trees once they have dropped their leaves.
- ❑ Monitor fruit plantings for mouse activity and take steps for their control if present.
- ❑ Continue mowing lawns until growth stops. Keep leaves raked off lawns to prevent smothering grass. Now is a good time to apply lime if soil tests indicate.

week 4

- ❑ Plant tulips now.
- ❑ Trees may be fertilized now, following soil test guidelines.
- ❑ Place wire guards around trunks of young fruit trees for protection against mice and rabbits.
- ❑ Winterize mowers before storage.

Featured Plant of Merit™

Crape Myrtle
Lagerstroemia 'Acoma'

This crape myrtle cultivar is one of several mildew-resistant hybrids developed by the National Arboretum in Washington, D.C., all of which have been given Native American tribe names. It is a deciduous, upright, spreading, multi-stemmed shrub with dark green foliage turning dull red to reddish purple in fall, and white flowers from mid-summer to early fall.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs at www.plantsofmerit.org

www.gardenhelp.org

Garden at Large

Opened to the public in 1859, the Missouri Botanical Garden is today the oldest botanical garden in continuous operation in the U.S. and a National Historic Landmark. Since its inception, the Garden has been dedicated to a three-fold purpose: Education, Horticulture, and Research and Conservation. Today, these activities have grown beyond founder Henry Shaw's old stone walls to include a family of attractions throughout the St. Louis metro area.

The Shaw Nature Reserve features a variety of native Missouri plants and ecosystems. Visitors can experience the natural world at night at the Dana Brown Overnight Center (above right).

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

"The Shaw Nature Reserve provides a wonderful opportunity to experience and learn about a diversity of native plant communities and interesting natural features of our area—a sure cure for nature deficit disorder!"

– John Behrer, Director of the Shaw Nature Reserve

In 1925, the soft coal pollution in St. Louis was so dire that the Missouri Botanical Garden, fearing the need to relocate to healthier air, purchased farmland 35 miles west of the city. Pollution control in St. Louis improved, and today the 2,400-acre Shaw Nature Reserve in Gray Summit, Missouri, has become an area leader in habitat restoration and the promotion of Missouri native plants with a mission "to inspire responsible stewardship of our environment through education, restoration, and protection of natural habitats and through public enjoyment of the natural world." The Reserve's restored prairies, wetlands, woodlands, and glades provide a natural laboratory for education programs, research, and horticultural display.

Home to fourteen miles of trails, the Reserve attracts hikers, birders, and nature enthusiasts in all four seasons. Visitors enjoy the **Whitmire Wildflower Garden**, one of the best native plant displays in the Midwest, and the historic **Bascom House**, with its exhibit on the history of "People on the Land" in the Meramec River valley. The **Dana Brown Overnight Center** features restored 19th-century log cabins and a large timber-frame assembly building, which serves as a headquarters for overnight programs for school children and adults. The Reserve also includes a designated **Missouri State Natural Area** of 146 acres of bottomland forest, gravel bar, and river channel, including the best remaining regional representative of "oak-dominated bottomland forest," once common along the Meramec River.

At the Shaw Nature Reserve this fall...

Families in Nature

Saturday, September 8, 8:30 a.m. to Sunday, September 9, 11 a.m.
Bring your family to the Dana Brown Overnight Center for a weekend of fun outdoor activities! Learn how to pilot a canoe, fish, track an animal, and navigate through the woods. Take a night hike; star gaze using our telescope, and more! Participants must be 7 years or older. An adult must accompany children ages 7 to 12 to most classes and program activities. The program is in cooperation with the Missouri Department of Conservation. Visit the website for pricing and accommodations: www.shawnature.org. Reservations required, so call (636) 451-3512 ext 6001.

Native Plant School

Sign up now for one or several of these mostly outdoor learning sessions in the Whitmire Wildflower Garden. Classes cover various aspects of native home landscaping and prairie/savanna/wetland reestablishment. All classes take place on Thursdays, 1 to 4 p.m. $8 ($12 for non-members). Call (636) 451-3512 to reserve your spot.

September 6	Prairie Reconstruction: Seeding and Maintenance
October 11	Native Trees for Sidewalks, Backyards, and Power Lines

Natural Sights

As summer wanes, the grasses of the prairie take on purple or golden tones, while the asters, sunflowers, and goldenrods come into full bloom. Migrating monarch butterflies peak near mid-September, taking advantage of the nectar of these prairie flowers to nourish them for their long journey south. The bluest of all our flowers, prairie gentian, begins to bloom at the end of the month.

October brings the first frost and the fall colors. New England aster, showy and stiff goldenrods, and prairie gentian continue to bloom through the month, while the sumac leaves turn scarlet, and maple, sassafras, and oak in the nearby woods turn gold, salmon, and crimson. Gossamer spider threads and fluffy seeds on the warm afternoon breeze are more signs of fall.

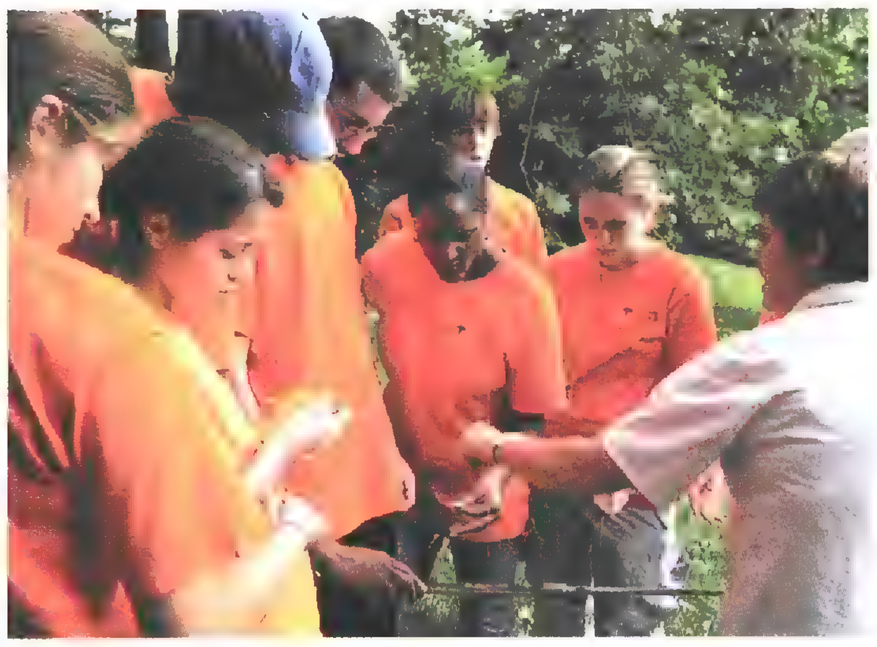
photos by Erin Whitson

Harvest Festival at Shaw Nature Reserve.

Harvest Festival 2007

Sunday, October 14, 11 a.m. to 5 p.m.,
$5 ($3 for Garden members; free for children 12 and under)
The sixth annual Harvest Festival will feature food from some of St. Louis's top restaurants, a farmers' market with local produce and products, hayrides, pony rides, self-guided tours of the Reserve, and live music from some of the region's best folk, bluegrass, and roots artists. Visit www.harvestfeststl.com for complete information. Please note: No pets. Coolers allowed for produce purchases only. No outside food or beverage. Carpooling is recommended. Come to Gray Summit for a day of down-home, family fun!

Presented by Sauce Magazine and Schlafly Beer to benefit the Shaw Nature Reserve. Sponsors include Bank of Washington, Washington Missourian, *Mount Pleasant Winery, PepsiAmericas, and KWMU.*



photos courtesy Heather Wells-Sweeney

Hands-on science at the Litzsinger Road Ecology Center.

Place-based Education Close to Home

Since 1993, the Missouri Botanical Garden has offered a year-round slate of educational ecology activities for students and teachers at a private facility just 10 miles from downtown St. Louis. The Litzsinger Road Ecology Center (LREC) is a 34-acre study area dedicated to promoting science and environmental literacy. Throughout the year, the LREC works with local schools to link field studies on site with projects back at school and in the community. "By building long-term partnerships with area schools, we're helping teachers and kids apply what they are learning through the Garden to make a difference in the community," says Bob Coulter, Senior Manager of LREC. During the summer, the center hosts professional development workshops for a national audience of teachers and 4-H leaders. Complementing these educational programs, ongoing research on urban ecology topics and restoration work is conducted by staff, volunteers, and local scientists. For more information, visit www.litzsinger.org.

The EarthWays Center (seen at left) features educational demonstrations on energy and resource conservation.

"Plants need a healthy environment to thrive, so do people! At the EarthWays Center, people can learn practical everyday ways to save money and be healthy, while protecting our planet."
– Glenda Abney, Manager of the EarthWays Center

EarthWays Center

3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

Founded in 1994, the EarthWays Center is dedicated to promoting sustainability through environmental education and improving the built environment. EarthWays provides practical options for conservation and sustainability throughout the region. These practices are designed to sustain us today without sacrificing the prosperity of future generations, and are focused on each person's responsibility to manage our limited resources and to protect the diversity of life on our planet. The Center became a part of the Missouri Botanical Garden's family of attractions in 2000, and today is the headquarters of the U.S. Green Building Council—St. Louis Regional Chapter, and a leader in school, university, home, and workplace programs to promote energy efficiency, recycling, green building, and air quality.

The current home of the EarthWays Center is an 1885 Victorian house renovated to demonstrate energy and resource efficient materials, systems, and practices. Visitors learn how to live a comfortable, contemporary lifestyle while helping to conserve limited natural resources through a variety of demonstrations. Explore energy efficiency through various types of lighting, windows, insulation, and landscaping. Learn about ground-source heating and cooling, a high-efficiency natural gas furnace, and solar-powered, high-efficiency kitchen appliances. Check out water-saving fixtures and gardens and a green roof. Learn about recycling and composting systems, as well as responsible home décor options such as floor coverings made from cork, bamboo, natural fibers, and recycled materials.

At the EarthWays Center this fall...

Green Homes Festival and House Tour

Saturday and Sunday, September 29 and 30, 10 a.m. to 4 p.m., free

Are you building a new home? Making improvements? Green home options are the smart way to cut fuel and utility costs and to help curb global climate change. The EarthWays Center's sixth annual celebration of ways to use natural resources wisely includes demonstrations of locally available sustainable products and services; expert presentations on building, lifestyle, and conservation topics; green-inspired kid's crafts and activities; and a shopper's Green Bazaar with great deals like compact fluorescent light bulbs for only 99 cents each. New in 2007: a Green House Tour (tickets $10) featuring new St. Louis homes designed and constructed to meet Green Building certification standards. Visit www.earthwayscenter.org for complete information.

photo by Sarah Green

Learn how to save money and the planet!

Sponsors include AmerenUE, Butterfly Energy Works, Laclede Gas, Premier Skylights, Renewal by Andersen, St. Louis-Jefferson Solid Waste Management District, U.S. Green Building Council—St. Louis Regional Chapter, and KDHX.

Subscribe

to EarthWays E-news for quarterly updates on green homes, energy and recycling options, local sustainability events and organizations, and more! E-mail earthways.center@mobot.org.

photos by Jack Jennings and Charles Schmidt

Migrating monarchs return to the Native Butterfly Garden at the Butterfly House in September.

"Within the Garden's family, the Butterfly House conveys the critical importance of plant-animal relationships, further emphasizing the importance of plants and the environment."

– Joe Norton,
Director of the Butterfly House

Butterfly House

15193 Olive Blvd., Chesterfield, MO 63017
(636) 530-0076 • www.butterflyhouse.org

The Sophia M. Sachs Butterfly House utilizes the lifecycle of the charismatic butterfly to "foster a better understanding and increased awareness of our natural world." The first butterfly facility in the nation to be accredited by the Association of Zoos and Aquariums, the Butterfly House opened to the public in 1998 and became part of the Missouri Botanical Garden in 2001. Today, the Butterfly House promotes conservation efforts through cooperative butterfly farming, which supports habitat protection, and offers educational programming for all ages.

At the Butterfly House, visitors can interact year-round with thousands of tropical butterflies in free flight inside the **Conservatory**. You can watch a butterfly emerge from a **chrysalis** right before your eyes. To see migrating and local butterflies, stop by the outdoor **Native Butterfly Garden**, especially in fall when the monarchs make their great journey south. Visitors can get face to face with pink-toe tarantulas, black widows, brown recluses, and a giant whip-scorpion at the **Pulaski Bank ARACHNIDS!** exhibit. New in 2007, the **Small Wonders** exhibit looks at arthropod diversity in a variety of habitats.

photo by Mark Deeney

Butterfly of the Month

Small postman

Heliconius melpomene stichelli

Range: Ecuador
Host plants: passion flowers

The Small postman takes on many different color forms—over 12 named forms exist with perhaps a dozen more intermediate versions! A slow-flying species, the Small postman spends most of the day resting on flowers, feeding on nectar. Interestingly, they will often roost at night in large groups, and it is not uncommon to find a dozen together on the same perch.

At the Butterfly House this fall...

Wing Ding 2007

Saturday, September 15, 6 p.m.

Don't miss Wing Ding, the marvelous Butterfly House biennial benefit. Enjoy fine food and drink, live music, and both live and silent auctions. Tickets are $350 and reservations are required. Full tables and sponsorship opportunities are available. Please call (314) 577-0291 for details.

Monarchs: The Great Migration

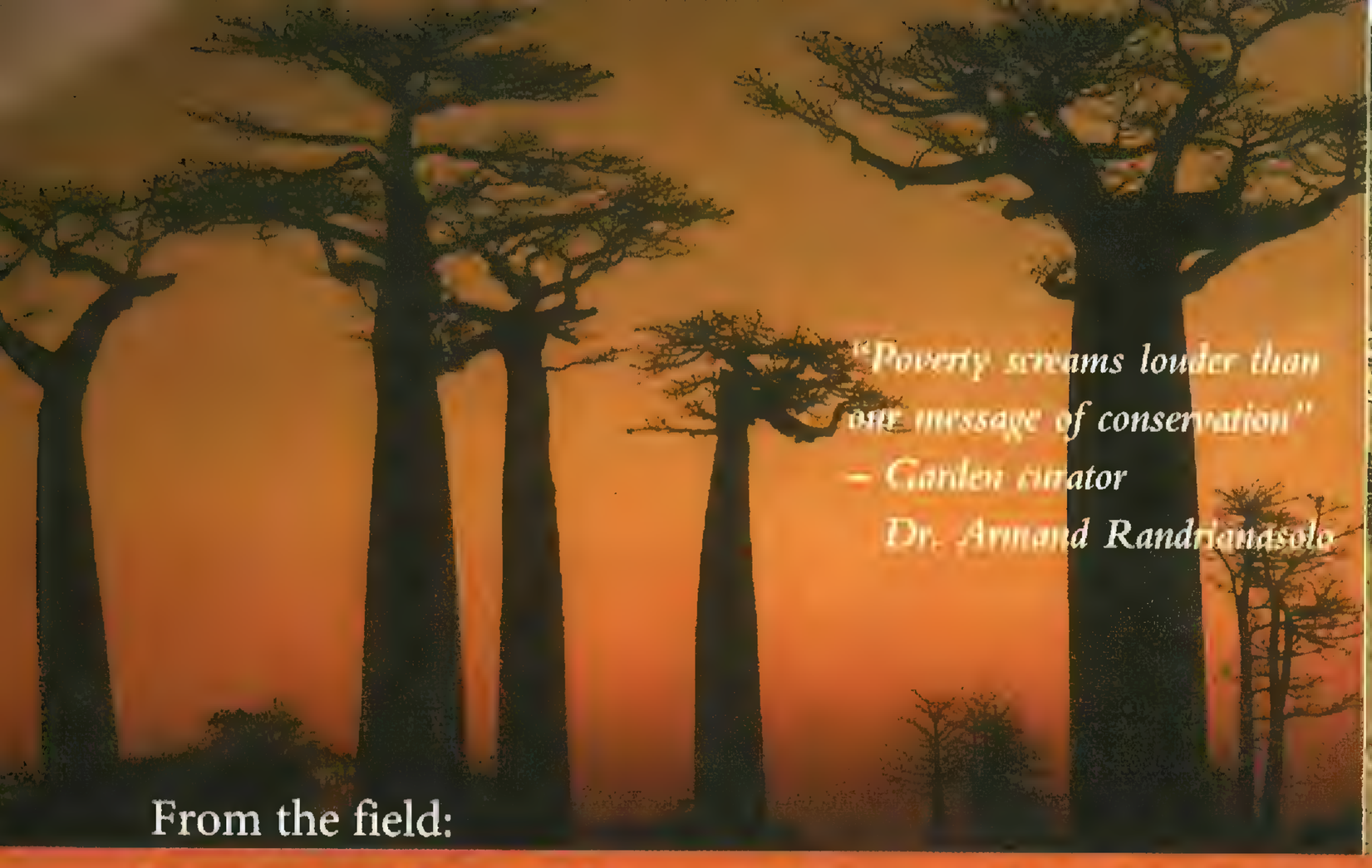
Saturday, September 22, 10 to 11:30 a.m.

Learn about one of the greatest migrations known—the monarch's—and discuss how such tiny creatures can fly thousands of miles. Students 6 years and up. $16 ($14 for Garden members). Reservations required; call (636) 530-0076 ext. 10.

"Boo-tterflies" Halloween Party

Saturday, October 20, 11 a.m. to 2 p.m.

No tricks, just treats for kids ages 2–8. Wear your costume, play games, and create lots of "spooktacular" crafts. A ghostly good time, great prizes and yummy treats! Activities included with regular admission.



From the field:

Sowing Self Reliance in Madagascar

Today, in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever, before we can determine their uses or their role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active and geographically widespread botanical research program in the world. Their work forms the base on which the pyramid of plant science and conservation stands.

In the Malagasy language, it is known as *tavy*. Researchers believe this traditional method of slash-and-burn agriculture was brought to the island of Madagascar by the earliest human settlers from proto-Indonesia almost 2,000 years ago. *Tavy* teaches farmers to cut down the forest, burn the remains, and plant rice. The fields are then supposed to be left fallow, sometimes up to 10 years, but human population growth and desperate poverty has outstripped forest regeneration, and *tavy* has become a tradition that threatens the island's future.

"The villagers of Mahabo, for example, rely heavily on the forest for income. The result is over-harvesting of trees, slashing-and-burning the forest to make room for crops. The bottom line is, poverty screams louder than our message of conservation," said Dr. Armand Randrianasolo, associate curator at the Garden.

Madagascar is the world's fourth largest island, about the size of Texas, located off the east coast of Africa. Some 90 percent of Malagasy plants are found nowhere else in the world, the highest biodiversity of any nation on Earth. Yet, Madagascar remains poor. With an average income of only $240 per year, about 80 percent of the population practices subsistence farming. Barely 15 percent of the original forest remains today.

Garden researchers have been active in cataloging the plants of Madagascar since 1972, but starting in 1990, the Garden launched training programs to establish a corps of Malagasy citizens with the practical skills and experience needed to assume responsibility for the study, protection, and rational use of their country's unique biodiversity. Today, the Garden's staff in the capital city of Antananarivo includes 54 Malagasy botanists and botanists-in-training. These employees run community-based conservation programs, conduct botanical inventories, train students and staff, and are working to develop a conservation curriculum with local universities.

Read more about the Garden's program in Madagascar at www.mobot.org/mobot/madagascar.

Madagascar broke off from the African mainland 165 million years ago, resulting in a huge number of unique species found nowhere else in the world, such as lemurs and baobab trees (seen here).

This community-based conservation effort is a Garden-supported nursery in Mahabo which provides saplings of fast-growing trees as an alternative timber source to the native forest trees.

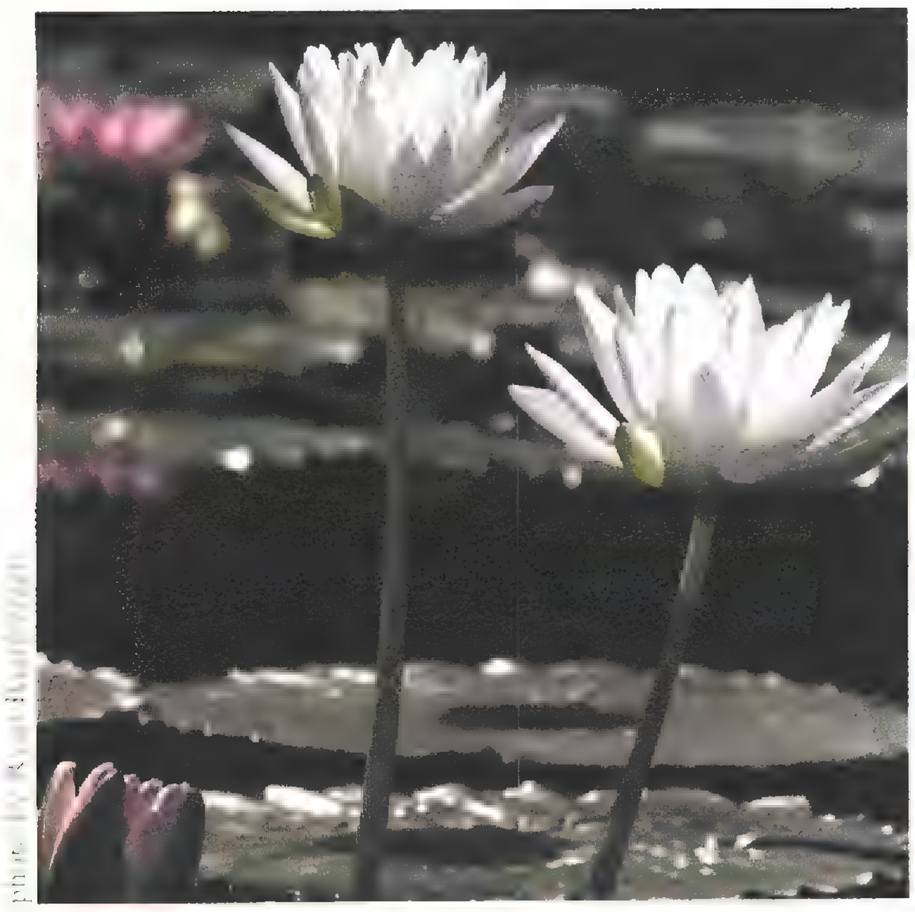
photo David Hoekstra

The importance of conserving the Malagasy flora:

Today, the long-term survival rate for childhood leukemia is above 90 percent, partially due to vincristine, a chemotherapeutic drug made from the Madagascar rosy periwinkle. What other potential medicines might be discovered in Madagascar?

A Basket of Blessings

The Blessing Basket Project®, a Granite City-based nonprofit, has partnered with the small village of Mahabo to reduce poverty by providing sustainable employment. The first shipment of handmade Madagascar Blessing Baskets will be sold exclusively at the Garden Gate Shop. Don't miss the trunk show of these colorful handmade baskets on Saturday, September 15, from 10 a.m. to 4 p.m.



Tributes

May/June 2007

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

In Honor of

Kathryn and Ted Armstrong
Mr. and Mrs. Charles W. Oertli

Ms. Cristy Barnes
Mr. and Mrs. Harold A. Tzinberg

Ms. Dorothy Beezley
Mrs. Frances J. Beezley

Mrs. Ruth Bettman
Mrs. Suzy Seldin

Mr. John A. Blumenfeld
Mr. and Mrs. Harold A. Tzinberg

Mr. and Mrs. Hugo Brueggenjohann
Mrs. Arthur Wallace

Dr. and Mrs. Donald D. Corbin
Mr. and Mrs. Thomas E. Price

Mrs. Jean L. Crowder
Mrs. Marilyn S. Raphael
Mrs. Susan Reynolds

Mr. Henry W. Dubinsky
Mr. Arthur Scharff

Barb and Roy Fog
Jack and Carol Buck

Ms. Anita Frager
Mr. and Mrs. Karl R. Liberman

Mr. and Mrs. Michael Geller
Mrs. Marjorie N. Ross

Mrs. Peggy H. Gibstine
Mrs. Joan W. Goodman

Mrs. Mary Hall
Mr. and Mrs. Charles P. Reay

Mrs. Robert M. Harrison
Mrs. Suzy Seldin

Mr. Harold F. Helmkampf
Mr. and Mrs. Michael N. Newmark

Miss Marian L. Herr
Institutional Advancement Division-Missouri Botanical Garden
Ms. Cheryl Schaefer

Mark and Sue Kaiser
Jim and Audrey Pilbeam

Mrs. Katherine Kercher
Mrs. Ernest A. Brooks II
Mrs. Lillian E. Finn

Mr. John W. Kourik
Olivaire Subdivision

Fred and Sheila Lenkman
Mr. and Mrs. Timothy Ohmeyer

Dr. Herluf G. Lund
Dr. and Mrs. Stephen F. Bowen, Jr.

Mr. and Mrs. Kenneth E. Maag
Ms. Marilyn J. Boettcher

Mr. and Mrs. G. Randall Martin
Mrs. Hugh C. Webster

Mrs. Barbara Morrison
Mrs. Kathi Amann

Mrs. Elizabeth Mullins
Nicki and John Gillis

Sue and Kip Rapp
Mr. and Mrs. Donald McLean

Dr. Peter Raven
Dr. and Mrs. Fred W. Gaskin
Mrs. Landon Y. Jones
Don and Peggy Lents
Mr. and Mrs. Harry McQuinn
Ms. Isabelle C. Morris
Mr. and Mrs. Walter G. Stern
Mr. and Mrs. Kenneth F. Teasdale
Mr. and Mrs. Blanton J. Whitmire
Dr. and Mrs. Thomas A. Woolsey

Mr. and Mrs. Larry Richards
Ms. Laverne Sebben

Mrs. Ellen Ross
Mrs. Joan W. Goodman
Mr. Bernard J. Mellman
Mrs. Sally Needle

Rachel and Doug Rusnack
Mr. and Mrs. Rudyard K. Rapp

Marc and Erin Schreiber
Mr. and Mrs. Leonard Adreon

Ms. Sarah Schubart
Sally and Milton Tofle

Martin Schweig, Jr. and Terrie Liberman
Mary Estaque
Katie Kurtz

Mrs. Jim Seldin
Mrs. Suzy. Seldin

Pastor Wally Shearburn
Ms. Bernadine Gravot

Mrs. Edith Spink
Deborah Taylor Sweeney

Mrs. Maggie Steinheimer
Mrs. Neva C. Quest

Mr. Henry H. Stern, Jr.
Ellen and Henry Dubinsky

Mr. Walter G. Stern
Ellen Dubinsky

Ms. Julie Tenenbaum
Jill Esrock

Dr. Jean H. Thurston
Dr. Gregory A. Storch

Mr. and Mrs. Frank T. Viverito
Mr. and Mrs. Phillip Schreiber

Mr. Terry D. Wakefield and Ms. Kathy D. Barr
St. Louis Herb Society

Mr. Robert M. Williams
Dr. and Mrs. William F. Sasser

In Memory of

Abby
Mr. Sheldon B. Korklan

Mr. Francis R. Arnoldy
Mrs. Roberta Arnoldy and Mrs. Mary Grundel

Terry Baker
Mr. and Mrs. Robert B. Ruethain

Mrs. Susan J. Bandy
Ms. Betsy L. Cracchiolo and Family
Ms. Ginger Day
Mrs. Rose M. McKelvey and Family
Mr. Jim Moran

Bridget Barnstead
Alan and Sunny Pervil

Mrs. Mildred M. Bester
Mr. Thomas Caulley

Mr. Ed Bierach
Mr. and Mrs. Charles P. Guariglia

Dr. Paul A. Blessing
Mr. and Mrs. J. Glenn Nothum

Mrs. Kay Bond
Mr. Fred J. Rock and Mr. James V. Moore

Joe Bondurant
Mr. and Mrs. Keith R. Krieg

Mr. Fred Borenstein
Mr. Sheldon B. Korklan

Miss Evelyn M. Braden
Mrs. Walter A. Koessel, Jr.

Mrs. Ruth Ann Brandmeyer
Dr. Jo Ellen Brandmeyer

Mary Catherine Bridges
From her friends in the St. Louis area

Mrs. Leslie Stephan Bruce
Ms. Lisa Burris

Ms. Nanette Buttery
Mr. and Mrs. Paul Chucalo

Mr. Gordon G. Carson
Mr. and Mrs. Richard T. Loy

Dr. Katherine P. Chambers
Mrs. Joanne D. Fogarty
Mrs. Karen S. Haller
Judy and Bill Miner

Dr. George Charnas
Ms. Vivien T. Gardner and Family

Janna Lee Chewning
Mr. Frank L. Campbell
Mrs. Janet DeCoster
Friends at Fireman's Fund Insurance Company
Ms. Jean Hartline
Mr. Rob Lienhart
Mr. Robert Merenda
Mr. Mark Merlotti
Ms. Melody Nickles
Ms. Judy Ripke
Ms. Tina Sprock
Ms. Karen Sullivan
Mrs. Sandra Williams
Ms. Carolyn Winsby
Mr. Donald W. Winsby, Sr.

Mrs. Edythe H. Cody
Mrs. Eleanore C. Bunn
Linda and John McGowan
Bill and Linda. Port

Mrs. Mariella C. Coe
Ms. Ruth Bolin
Mr. and Mrs. Taylor Desloge
Mrs. Adele D. Fordyce
Mrs. Paul E. Gildehaus
Mark, Michele, and Melissa Grewenow
LaMear & Rapert, L.L.C.
Mrs. James S. McDonnell
Mrs. Judith Hood McKelvey
Miss Phyllis McPheeters
Mr. and Mrs. W. Anderson Payne
Mrs. Ralph E. Piper
Mr. and Mrs. Bob Robertson
Mrs. Frank Sheldon
Mrs. Janet L. Volkman

Mrs. Juantia V. Collins
Mrs. Mary Jane Romo

Mrs. Phyllis B. Cone
Dr. John A. Stephens
The Thursday HAS Group

Keith R. Coons
Mr. Sheldon B. Korklan

Ms. Virginia Corbin
Marta A. Brockmeyer. Ph.D.

Mr. Eugene S. Davis
Mrs. Lilly Ann Abraham

Mr. William L. Davis
Mrs. James G. Alfring and Family
Mrs. Dolor P. Murray

Mr. Clarence Debold
Mrs. Marsha Borchardt

Mrs. Emma Detamotis
Mr. and Mrs. Steve English
Mrs. Norman Holsinger

Mrs. Bette F. Dodich
Mr. and Mrs. Rick Halpern

Mrs. Eleanor Dowling
Mr. and Mrs. Wayne J. Bennetsen

Mrs. M. Susan Driscoll
Mr. James S. Driscoll, Sr.

Mrs. Valeria Cecilia Caroline Dunger
H.G. and Melba Buckner
Classmates of H.A. Dunger—Class of 1959
Classmates of Larry Dunger—Class of 1957
Kathy Hazelwood
Ms. JoAnn Hejna
Mrs. Rose Ostendorf
Howard and Judy Simpson
Ms. Rachel A. Presley and Mr. Michael G. Smith
Linda Whitaker

Dorothy Ebrecht
Annette and John Fudemberg

Virginia R. Eshbaugh
Mr. and Mrs. Norman Niederstadt

Mrs. Carol E. Flotken
Mr. and Mrs. William B. Eiseman, Jr.

Mr. William Flucht
Laurel Lane
Andrea and John Perkins
Steve and Linda Wichlan

Mr. James Edward Fraizer
Ms. Jama Dodson

Mrs. Cornelia Dooley Frank
Mr. and Mrs. John O. Felker
Mr. John G. Goessling, Sr.
Mr. and Mrs. James H. Howe III
Mrs. Robert C. Krone
Mississippi Vallery Nurserymen's Cooperative
Mrs. Frank A. Thompson, Jr.
Mrs. Dorothy K. Wilson

Mrs. Katherine H. Frein
Mr. and Mrs. Gerald L. Adlon
Ms. Lisa Ayers
Mrs. Betty J. Betts
Mrs. Carole Bomba
Ms. Sheryl Brandt
Robert F. and Mary Ann Brown
Ms. Terry Brown
Mr. Earl Casey
Ms. Denise Cole
Mr. and Mrs. Anthony D. Daus, Jr.
Mr. Greg Dowd
Mrs. Margie Dougherty
Mr. and Mrs. Gerald Ehnes
Ms. Mary Ferguson
Pat and Sue Fleming
Mrs. Dale Ford
Mr. George H. Frein
Children of Jerry and Mary Frein
Mr. and Mrs. Robert P. Frein
Mrs. Mary Ann Fuller
Gerry and Carol Gerhart and Family
Janet and Sam Harvey
Mr. and Mrs. Jack Hayes
Mrs. June M. Hirlinger
Mrs. JoAnn Hoehn
Douglas and Barbara Jacobs
Mrs. Lisa Jordan
Ms. Jeanne T. Keirle and Mr. C. Bruce Tanner, Jr.
Ms. Dori Kelley
Ms. Charlotte Keymer
Mr. Tim Kniest
Mr. and Mrs. John D. Kroll
Laclede Oaks Manor Residents' Association
Ms. Barbara Larson
Mr. and Mrs. William Laventure
Ms. Joanne Leski
Mr. and Mrs. Ronald Londe
Mr. Robert S. Maack
Mrs. Carole Matthews
Mr. Bernard McDonnell

Mr. and Mrs. G. Michael Nebel
Ms. Patricia O'Leary
Peggy Perkinson and David Rockemann
Mr. and Mrs. Keith Pohl
Mr. and Mrs. William Powers
Mr. and Mrs. Gary A. Rogers
Mrs. Joni Rothblum
Dr. and Mrs. Steven N. Schwartz
Ms. Elizabeth Siegfried
Ms. Ilene Spevack
Mr. and Mrs. Mike Steele
Ms Joan A Sutterer
Mrs. Elaine Sweeney

Mrs. Natalie Edison Freund
Mr. and Mrs. Peter A. Edison

Dr. Bernard Garfinkel
Mr. and Mrs. Arthur E. Ansehl

Mr. Robert C. Garrett
Mr. and Mrs. Richard G. Alfred
Hammerts Iron Works, Inc.
Mr. Harvey A. Harris
Mr. and Mrs. J. Joseph Horan, Sr.
Mrs. Robert C. Krone
Dr. W Edward Lansche
Mr. Jay L. Levitch
Dr. and Mrs. Kenneth C. Marshall
Mrs. Thelma Miller and Ms. Diane Ryan
Mr. Donald P. Nies
Ms. Patricia Przyzycki
Saint Louis Community Foundation
Mr. and Mrs. Glenn W. Sedgwick
Mr. and Mrs. Walter A. Seeger, Jr.
Dr. John S. Skinner
Mrs. Lucia Sprague
Stolar Partnership Foundation
Mr. R. Philip Stupp
Dr. and Mrs. A. C. Trueblood, Jr.
Mr. and Mrs. John A. Virant, Jr.
Mr. and Mrs. George W. Walker
Mr. Howard J. Wilkinson, Jr.
Mr. William F. Wischmeyer

Benjamin Gerard Gelsthorpe
Friends from Des Peres Hospital

Mr. Paul V. Gewinner
Mr. and Mrs. Leo Schwartz and Sarah

Mrs. Vera Mae Gillham
Karen and Reggie Daniel
Karen and Gary Gillham

Mr. Leland Gilmore
Mr. and Mrs. Allan J. Ross

Mrs. Edna Glahn
Ms. Cookie Cullen
Ms. Mary Ruth Kettenbach

Mr. Larry Gliedt
Aileen and Bill
Joan and Ed
Marge and Vic
Ginny and Bob
Mary and Rudy

Bruce Goldberg
Mr. Sheldon B. Korklan

Dr. Barry Goldstein
Mr. and Mrs. Lawrence G. Goldfarb

Keri Goldstein's friend, Jane
Dr. and Mrs. Edward Weiss and Family

Ms. Annette Gould
Dr. and Mrs. Thomas C. Bailey

Mrs. Louise Grant
Ms. Karen Hoelzer
Ms. Gabrielle Mack
Mr. John W. Rowe

Annie Grebas
Dr. Albrecht and Staff

Mrs. Laura K. Griesedieck
Ms. Laura E. Griesedieck

Dr. Mark Halloran
Mr. John G. Goessling, Sr.

Mrs. Margaret C. Hamilton
Mr. and Mrs. Jon Baris
Mrs. Margery S. Nax

Ernastine Haskins
Doug and Ona Scott

Dr. Roger E. Hatton
Dr. John A. Stephens

Mrs. Clara Herring
Larry and Kathy Shoults

Ms. Leora Hess
Mrs. George R. Robinson

Mr. Ian N. Irons
Nancy Welton, and George Lisle

Mr. S.T. Johnson, Sr.
Mr. and Mrs. David E. Morgan

Mr. Thomas F. Johnson
Ms. Zita Bick
Mr. and Mrs. Francis H. Brockman
Mrs. Natalie R. Dohr
Mrs. Louise Duke
Ms. Christine Dunne
Durant Life Member Council
Ms. Dot Jewell
Ms. Kathleen Kunkler
Mr. and Mrs. Robert E. Lischer
Mr. Thomas A. Lischer
Ms. Dorothy Long
Ms. Carol Minor
Mrs. Kenneth L. Ponciroli
Ms. Jean Rosin
Ms. Amanda Schoonmaker
Ms. Susie Schoonmaker
Mrs. Bonnie Stuck
Ms. Catherine C. Sullivan

Mrs. Dorothy Kaiser
Mr. Sheldon B. Korklan

Mr. Elmer J. Keitel
Mr. and Mrs. Gerard K. Sandweg, Jr.

Mrs. Eddie Louise King
Ms. Teresa A. Donnelly

Mr. Stephan Kirchner, Jr.
Mr. Sheldon B. Korklan

Mrs. Helen Kopecky
Mr. and Mrs. Donald R. Hemmer

Dr. E. Arthur Kratzman
Ms. Teresa A. Donnelly

Mrs. Rose M. Kuhlmeyer
Mr. and Mrs. Roger H. Volk

Mr. Paul Langevin
Mr. and Mrs. Jim Grundel

Debbie Lavall
BJC 8900 Staff

Mr. Millard E. Leach
Mr. and Mrs. Richard T. Loy

Mrs. Addie Lindbergh
Mrs. Charlotte M. Brown

Mr. Mark F. Litteken
Ms. Elizabeth A. Nieters

Mr. James Little
Bonnie Bawn McGuire and Robert McGuire

Mrs. Johanna Kelly Mack
Mrs. Ann Farwell
Dr. and Mrs. Lawrence D. Friedman

Dr. Frederic G. Maurer
Mr. Neal M. Tasch

Mr. Brad Maxedon
Mr. and Mrs. John J. Oefelein

Mr. Edward L. McGrath
Mr. and Mrs. Chris Arnold
Hattie and David Brugger
Mr. Merle A. Coughlin
Mr. and Mrs. Paul McGrath
Mr. and Mrs. Bill Mix
Mr. and Mrs. Robert S. Peck
Mr. and Mrs. Roger Robards

Ms. Ella Marie McIntyre
Friends at Edwardsville Community School, District #7

Mrs. Joan Audrey Mitchell
Joyce and Gus Hermann

Rabbi Simon Mordecai
Mrs. Ellen Ross

Frederick M. Morrison
Mr. and Mrs. Phil Dillingham

Mr. Lester J. Mueller
Mrs. Claudia G. Joyce

Mrs. Marie E. Myers
Mr. James Crews
Mr. and Mrs. James Crews
Mr. and Mrs. Bud Feldt
Dr. and Mrs. Raymond W. Hellweg
Anna, Barb, Andy and Art Myers
Mr. and Mrs. Arthur G. Myers II
Mr. and Mrs. Michael L. Myers
Ms. Nancy Myers
Niebling Auto Repair
Ms. Barbara Paulus
Ms. Evelyn Pursley
Mr. and Mrs. Robert R. Reese

Mr. T.A. Nooner, Jr.
Mr. and Mrs. Robert B. Ruethain

Charles "Chuck" Obenland
MBG Security Office
Sears Crestwood Store

Evelyn A. O'Connell
Mr. and Mrs. John D. O'Hara

Ms. Dolores C. Offill
H. Glenn and Ted Funkhouser

Mr. George Patrick O'Toole
Mrs. Martha B. Dyer
Marsha and Bill Rusnack

Mr. Troy Cade Parker
Friends

Mr. Kenneth W. J. Paul
Mr. and Mrs. Richard K. Berry
Mr. and Mrs. Hal Brock
Concordia Publishing House
Ms. Julia R. Engelhardt
Ms. Kay Henry
Mr. and Mrs. Vaughn Klopfenstein
Mr. and Mrs. Robert C. Long
Polk School Social Committee
Mr. and Mrs. John Robeson
Mr. and Mrs. Douglas C. Schumacher
Taylor Elementary School
Ms. Patti Thacker
Mr. and Mrs. Kenneth L. Vogel
Western Union Financial Services, Inc.

Mrs. Jane Penhale
Miss Audrey E. Claus
Mrs. Joyce K. Drienieyer
Mr. and Mrs. Raymond C. Jaudes
Ms. Jackie Juras
Deneb Karentz
Mr. Bruce Malfait
Mr. and Mrs. F. Scott Mathews
Ms. Elizabeth McElroy
Mrs. Joan Powell
Mr. and Mrs. Roger W. Zick

Mrs. Dorothy G. Peters
Ms. Terry S. Tobin

Mrs. Vera Plotkin
Mr. and Mrs. Stephen C. Smith

Mr. Jason Pyles
Friends at Christian Hospital Radiology Department

Ms. Karen J. Reavis
Mr. and Mrs. Anthony T. Gildehaus
Mr. and Mrs. Denis P. Hackett
Ms. Julie Kreidler
Mr. and Mrs. Terrill D. Struttmann

Mrs. Dorothy Roberts
Ms. Agnes Sobel

Dr. David J. Rogers
Dr. Lois A. Abbott

Mrs. Margaret Roman
Tom and Alex Dlugosch
Bryce Cooper

Mrs. Pauline E. Rowland
Vicki and Roger Altvater

Rabbi Alvan Rubin
Mr. Sheldon B. Korklan

Mrs. Mary M. Sauer
Mrs. Helen Kuenker

Mr. Charlie Schindler
Ms. Ann Duggan

Mrs. Maxine Schuler
Mr. and Mrs. David A. Baetz
Mr. William P. Carleton
Mr. and Mrs. Dale Clemons
Mr. Lewis R. Crist
Ms. Jackie Juras
Mrs. M. Carmel Maloney
Ms. N. Virginia Strudell
Mr. and Mrs. Edward Tillman, Jr.

Mrs. Clara Schwartz
Mrs. Ellen Ross

Rebecca L. Scott
Mrs. Ann Case
Carl and Jan Hermann
Shirley Donnelly Holmes
Jackie Juras
Audrey and Scott Mathews

Jane W. Scudder
Mr. and Mrs. B.W. Durham, Jr.
Mr. Stephen A. Glickman
Mr. and Mrs. Donald A. Stork
Mr Harry C Weber

Mr. George N. Shimamoto
Mr. and Mrs. Scott K. Shimamoto

Mrs. Lee Sicher
Mr. and Mrs. Thomas S. Lambert

Dan Siegel
Dottie and Rich Schainker

Rabbi Mordacai Simon
Carolyn and Joseph Losos

Leon Sosna
Dottie and Rich Schainker

Mr. Norman Stark
Ms. Mary Sheridan

Mrs. Jessie L. Stinnett
Jean P. Ball and Randy J.
Milan and Martha Dopudja
Mrs. Hazel Grecco
Ms. Mildred L. Rendleman
Mrs. Clarice D. Stinnett

Mr. Jeffrey G. Stout
Mr. and Mrs. Curt Lohman

Mr. Russell E. Sutter
Mr. and Mrs. Robert M. Rowe

Mr. Edgar Thies
Mr. and Mrs. William A. Thies

Mr. Peter Venezia
Mrs. Carolyn M. Heege

Mrs. Ann G. Viviano
Ms Marjorie M Cune
Ms. Margaret L. Daly
First Baptist Church
Mrs Bernice Ford
Mr. David T. Ford
Mr. and Mrs. Edward F. Ford III
Mr. and Mrs. Vincent Gocke
Ms. Charlotte Hamm
Mr. and Mrs. Hugh Harrington
Mr. and Mrs. Frank J. Hellwig
Ms. Janet L. Johnston
Ms Jackie Juras
Mrs. Lorraine Kehoe
Mr. and Mrs. Robert G. Korvas
Dr. and Mrs. Mark Kowlaski

Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information, or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Mr. and Mrs. Charles W. Lawson
MD Consult/Elsevier
Mr. and Mrs. Walter R. Miller
Missouri Botanical Garden Docents
Mr. and Mrs. Donald T. Plummer
Mr. and Mrs. E. David Powers
Douglas Ross and Christine Davies
Ms. M. Christine Rupp
Mr. and Mrs. Richard Ruppert
Mr. and Mrs. Mark D. Skornia and Family
Mrs. Karen Spradling
Mr. and Mrs. Christopher Stoces
Ms. Jeanne Tebbe
Mr. John J. Viviano
Mr. Eugene P. Walsh
Mrs. Dolores B. Wangerin
Mr. and Mrs. Michael N. Wyatt

Mr. John Wannemacher
Ms. Vivien T. Gardner

Janet McAfee Weakley
Mr. and Mrs. James H. Howe III
Carolyn and Joseph Losos
Dr. and Mrs. F. Thomas Ott
Mr. John W. Shepley

Mrs. Alma F. Weber
Bernard Wolfe and Jeanne Stretch

Ethel Weber
Carolyn and Joseph Losos

Mrs. Leona Weber
Carl and Jeannette Holeschek
Maurice and Wendy Jarden and Family
Wilma Krek
Joan Miller and Family
Edna Nimmons
Lowell and Evelyn Tilzer
Dr. and Mrs. Seth A. Tilzer

Mrs. Barbara Weible
Mr. Lewis W. Weible

Mrs. Vete Weiler
Ms. Corinne "Cookie" Cullen

Mrs. Jean Kiley Wells
Mr. and Mrs. Robert E. Kresko
Mrs. James S. McDonnell

Mrs. Georgia H. Wiegand
Ms. Helen Hartman Ellis

Mrs. Ann Louise Wilkinson
Dr. and Mrs. Joe E. Belew
Mr. and Mrs. Richard K. Berry
Mrs. Kathleen Burns
Ms. Ann Clark
Mr. and Mrs. Edward H. Clayton
Mr. and Mrs. Joseph Coleman, Sr.
Mr. and Mrs. Paul F. Cornelsen
Mr. and Mrs. Alvin M. Corry
Mrs. Guy Forcier
Dr. and Mrs. Robert E. Funsch
Mr. and Mrs. Albert W. Gruer, Jr.
Mr. and Mrs. John M. Gunther
Mr. and Mrs. James F. Haake
Mr. and Mrs. Henry W. Heck
Ms. Jacqueline K. Henges
Mr. and Mrs. Raymond C. Jaudes
Mr. Tom Earl King
Mr. and Mrs. Jerry Krim
Dr. W. Edward Lansche
Ms. Betty H. Mitchell
Mrs. Armarie Murphy
Mr. and Mrs. L. W. Peterson
Mrs. Genevieve Quillo
Mr. and Mrs. Walter F. Robbins
Mrs. Louis E. Sauer
Mr. and Mrs. John P. Schaper
Mr. and Mrs. Roy L. Schubert
Mr. and Mrs. Timothy D. Sheahan
Ms. Sally Shedelbower
Mr. Art Sherman
Dr. John S. Skinner
Mrs. Betty B. Sprowls
Dr. John A. Stephens
Dr. and Mrs. A. W. Stickle
Mr. and Mrs. Stuart R. Trottmann
Mrs. Leonora S. Weber
Mr. and Mrs. Byron L. Williams, Jr.
Mr. and Mrs. George N. Wilson
Mr. and Mrs. Terry Winget
Mr. and Mrs. J. Edgar Withrow
Mr. and Mrs. William W. Wright

Brenda Winslow
Mr. and Mrs. Jeffrey Boock

Mr. Nicholas R. Worth
Mr. and Mrs. William B. Eiseman, Jr.
Mr. and Mrs. Walter G. Stern

Mr. John Wright
Dr. and Mrs. Charles R. Burnside
Emma Lee Chilton
Mary and Dale Clemons
Mrs. Janet O. Fales
82nd Engineer Combat Battalion Association
Ms. Jackie Juras
Mrs. Arta K. Kirk
Ms. Faith M. Schaan
Mrs. Betty A. Wilson
Mr. Gordon B. Wright
Jeffrey and KarenWright

Mr. Manny Yaroschevsky
Mr. and Mrs. Gene F. Kern

photo by Leslie Wallace

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from May through June 2007.

Bronze Signature Bricks

Robert H. Banks and Herman and Mary Banks
Mrs. Marabeth Banks

Linda H. Dodd
Mr. Larry Dodd

Louise Grant
SSM Health Care – St. Louis

Pat and Phillip Henderson
Mr. and Mrs. Phillip Henderson

Elizabeth Kay Kauffman
Mr. and Mrs. Jerry Kauffman

Kaoru G. Rikimaru
Mr. Yuki Rikimaru

Jack Henry Tisone
Dr. Lawrence W. O'Neal

John P. Tyler
Ms. Rhonda L. Tyler

Marcie Zweifel
Mr. James Zweifel

Engraved Clay Bricks

Ralph Bierman
Mr. and Mrs. Jerry Wolkowitz

Mariella Coe
Mrs. Priscilla B. McDonnell

Dorothy Drain Coleman
Ms. Sara J. Seymour

Ann and Martin Epstein
Mr. and Mrs. Sid Axelbaum
Mr. and Mrs. Philip H. Barron
Mr. and Mrs. Max Blinder
Mrs. Marcia Broddon
Mr. and Mrs. Lou Cohen
Mr. and Mrs. Jim Ellis
Mr. and Mrs. Steve Frank
Mr. and Mrs. Paul Gallant
Mr. and Mrs. Harvey Gerstein
Mr. and Mrs. Arnold Goldman
Mr. and Mrs. Robert G. Greenberg
Mrs. Laurie Katzman and Mr. Mark Shyken
Mr. and Mrs. Raymond Marcus
Mrs. Thelma Peskind
Mrs. Norma L. Rader
Mrs. Marilyn Reznik
Mrs. Sue Rosen
Mr. and Mrs. Les Sherman
Mr. and Mrs. William Simon
Mrs. Ruth S. Sobel
Mrs. Shirley Weiss

Julia and Mark Futterman
Ms. Francie M. Futterman

Laura K. Griesedieck
Ms. Laura E. Griesedieck

T. Cade Parker PGH PA PALS
Mr. Patrick Connors

Florence and W. B. Parker
Mr. and Mrs. Charles W. Parker

Benjamin Andrew Rauh
Mr. and Mrs. Ronald Rauh

Madeline Elaine Rauh
Mr. and Mrs. Ronald Rauh

Laurenteen Reese
Mrs. Rausby Edwards

Beth, Jacqui, and Anna Rieman
Ms. Lisa M. Rieman

Suzanne and Jon Schindler
Mr. Mike Schindler

Ann G. Viviano
Mr. John J. Viviano
Nancy, John, and Carol

Ann G. Viviano–John
Mr. John J. Viviano

Jean Kiley Wells
Mrs. Priscilla B. McDonnell

Carol Ann Whitt
Mrs. Vicki Ambrose
Ms. Bonita A. Brantley
Mr. and Mrs. Douglas A. Edmonson
Mr. and Mrs. Steve Glazer
Mr. and Mrs. Scott G. Ingberg
Mr. and Mrs. Jerry D. Lueders
Mr. and Mrs. Andrew J. Miller, Jr.
Mr. John W. Matthews
Mr. and Mrs. Warren D. Niederschmidt
Mr. and Mrs. Dennis Pezzani
Ms. Denise Rafferty
Mr. and Mrs. Robert Sale
Ms. Karen R. Schneider
Mr. and Mrs. Daniel Smith
Mr. and Mrs. Donald R. Stone

Sophia M. Sachs Butterfly House Pavers

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in May/June 2007

Tributes In Memory of

Tiffany Souers
National Charity League, Inc.

Pavers

Brenda Christ
Fox Elementary

D'Arcy Eden George
Mr. and Mrs. Charles D'Arcy Fox

Margaret Goldman
McConnells, Giffins, and Swearingens

Camille Herman
Friends at Emerson UU Chapel

Mrs. Carolyn Kreitler and Mrs. Carol Preiss
Michelle Gianino—Holy Spirit Pre-School Class of 2007

Becky Scott
The Freese Family

Baby Girl Smyth
Pam Ogborn and Stephanie Buscher

Lily Snider
Faculty, Staff, and Students at Washington Middle School

Jaden Stricker
Tad and Valerie Stricker
R. Theodor Stricker
Karon Scott
Robert and Betty Woolford

Mary K. Wood
Children and Grandchildren

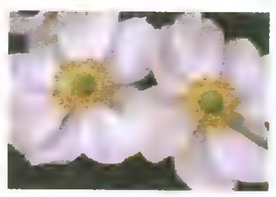
Missouri Botanical Garden
Office: 636-577-5100 • 4344 Shaw Blvd. • St. Louis, MO 63110 • www.mobot.org

September
2007

What's in bloom? download the podcast at www.gardenguide.mobot.org

Balloon Flower

Toad Lily


Windflower

Willow-leaved Sunflower

Fall Aster

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

All events take place at the Garden unless otherwise noted.

BH = Butterfly House, (636) 530-0076
EWC = EarthWays Center, (314) 577-0220
GGS = Garden Gate Shop, (314) 577-5137
LS = Little Shop Around the Corner, (314) 577-0891
SNR = Shaw Nature Reserve, (636) 451-3512

** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required
■ Guided walking tours, 1 p.m. daily
■ Early morning walking, every Wed. and Sat. from 7 a.m.

Register now for fall classes, tours, and preschool programs at www.mobot.org.

01
Japanese Festival
$ See p. 6.

02
Japanese Festival
$ See p. 6.

Labor Day 03
Japanese Festival
$ See p. 6.

04

05

06
CHAPUNGU
See p. 10. 5–9 p.m., $

07

08
■ Adventures
11 a.m. to 2 p.m.
■ GSLD Daylily Society sale
■ Book signing: *Parsleys, Fennels, and Queen Anne's Lace.* 12–2 p.m. GGS

Grandparents Day 09
** Members' Event: Grandparents Day. See p. 6.
■ GSLD Daylily Society sale
■ Camp BUGaloo. BH $☎

10

11

12

Ramadan Begins 13
Rash Hashanah
CHAPUNGU
See p. 10. 5–9 p.m., $

14
■ Exhibition: drawings of *"Wildflowers, Grasses and Sedges"*
■ Camp BUGaloo. BH. $☎

15
■ Adventures
11 a.m. to 2 p.m., BH
■ Iris Society sale.
■ Carnivorous Plant Society show and sale.
■ Blessing Basket Project trunk show, 10 a.m. to 4 p.m. GGS
■ Wing Ding. BH. $☎. See p. 17.
■ Wilderness Wagon. SNR. $

16
■ Iris Society sale
■ Camp BUGaloo. BH $☎
■ Wilderness Wagon. SNR. $

17

18
** Members' Day: Herb Garden Tour. 11 a.m. See p. 6.

19

20
CHAPUNGU
See p. 10. 5–9 p.m., $
■ Science Café. See p. 6.

21

Yom Kippur 22
■ Adventures
11 a.m. to 2 p.m.
■ Gesneriad Society show and sale.
■ BUZZ: Monarchs, the Great Migration. BH. $☎.
■ Wilderness Wagon. SNR. $

Autumnal Equinox 23
■ Gesneriad Society show and sale.
■ Wilderness Wagon. SNR. $

24

25
** Members' Event: Tower Grove Auxiliary Bus Trip. See p. 6.

26

27
CHAPUNGU
See p. 10. 5–9 p.m., $

28

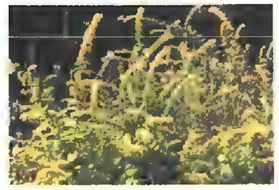
29
greenHOMES
EWC. See p. 16.
■ Dahlia Society show.
■ Rhapsody in Bloom.

October
2007

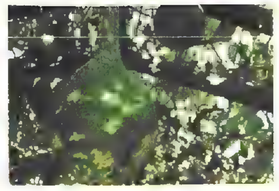
average temperature: 58.25
average monthly precipitation: 2.76 in.

Mums

Fall Color


Goldenrod

Fountain Grass


Gourds

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30 6th annual greenHOMES FESTIVAL EWC. See p. 16. ■ Dahlia Society show. ■ Book signing: *Chasing the Rain*. 12–3 p.m. GGS. ■ Wilderness Wagon. SNR. $	01	02	03 ■ AARP Celebration of Life. 8 a.m. to 2 p.m.	04	05	06 BEST of MISSOURI MARKET $ See p. 7. ■ Wilderness Wagon. SNR. $
07 BEST of MISSOURI MARKET $ See p. 7. ■ Wilderness Wagon. SNR. $	Columbus Day 08	09	10 ■ National Tropical Botanical Garden symposium.	11	12	Eid-Al Fitr 13 ■ Adventures 11 a.m. to 2 p.m. ■ Book signing: *Don't Forget Your Umbrella*, 1–2 p.m. GGS. ■ Wilderness Wagon. SNR. $
14 Harvest Festival SNR. $ See p. 15. ■ Wilderness Wagon. SNR. $	15	16	17	18	19 ** Members' Day: Fall Color Walk. SNR. 10 a.m. to noon. See p. 6	20 ■ Adventures 11 a.m. to 2 p.m., SNR ■ Daffodil Society sale. ■ Lily Society sale. ■ Book signing: *Growing Carnivorous Plants*. GGS. 11 a.m. to 1 p.m. ■ Wilderness Wagon. SNR. $ ■ "Booterflies" Halloween. BH.
21 ■ Daffodil Society sale. ■ Lily Society sale. ■ Wilderness Wagon. SNR. $	22	23	24	25	26	27 ■ Adventures 11 a.m. to 2 p.m. ■ Book signing: *100 Edible Mushrooms*, noon to 2 p.m. GGS. ■ Wilderness Wagon. SNR. $
28 *daylight savings time ends* ** Members' Event: Ghouls in the Garden. See p. 6. ■ "From the Garden, Live" fall concert series. Noon. ■ Wilderness Wagon. SNR. $	29	30	Halloween 31	November 01 ■ Trams cease for the season. ■ Terrace Café closes for the season.	02 ** Members' Day: Holiday Decorating. See p. 6.	03 ** Member Orientation. Noon. See p. 6. ■ African Violet Council sale

Missouri Botanical Garden Library
3 1753 00345 8103

photos by Sam Bahr, Sarah Green, Becky Homan, Jack Jennings, Josh Monken, Tammy Palmier, John Smelser, Chris Starbuck, Justin Visnesky, Leslie Wallace, Erin Whitson, and Kevin Wolf.

Contents

News 3
Events 6
Kidstuff..... 8
Volunteer 10
Chapungu 11
Gardening 12
Garden at Large 14
From the field: Madagascar..... 18
Tributes..... 19
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Education ..... (314) 577-5140
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Institutional Advancement.... (314) 577-9500
Hort. Answer Service ..... (314) 577-5143
Volunteer ..... (314) 577-5187

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: "Chapungu Protecting Family," sculpture by Gedion Nyanhongo. Venus rises in the night sky (upper right). Photo by Erin Whitson.

©2007 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

The Blessing Basket Project helps reduce poverty in developing countries by creating sustainable, well-paying jobs for artisans. These colorful hand-woven baskets were created in Madagascar.

photo by Jason Vanesky

GARDEN GATE SHOP
(314) 577-5137
9 a.m. to 5:30 p.m. daily.
Members 10% off every day,
20% off on members' days

Sassafras

CATERING ST. LOUIS
(314) 577-0200
Now booking 2007-08 parties and events at the Garden.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166-0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

QK1
.M593
v.2

MISSOURI BOTANICAL GARDEN

bulletin

November/December 2007 Vol. 95

From the President...

photo by Kristi Foster

Finally—fall! We witnessed a hot, dry, lingering end of summer, but now the cooler temperatures are here as nature settles down for a long winter's nap. The Doris I. Schnuck Children's Garden has closed for the season. The fantastic exhibition of *Chapungu: Nature, Man, and Myth* concluded in October. Thousands admired these monumental sculptures from Zimbabwe and their underlying themes of humans living in harmony with nature.

The Garden logged two record-breaking signature events this year. Held here each year over Labor Day weekend, the nation's largest and longest-running Japanese Festival featured beautiful weather and total attendance of over 55,000. The 16th annual Best of Missouri Market® in early October offered more vendors than ever before and welcomed over 25,000 visitors. Our gratitude goes to Nora Stern and Ellen Dubinsky who originated the idea for this popular event and have perpetuated it every year since. To share additional good news, the Whitaker Music Festival was proclaimed the best music festival in the *Riverfront Times*, an opinion the many thousands of devoted Whitaker Music Festival fans surely share.

The Garden awarded its highest honor, the Henry Shaw medal, to two much-deserving individuals this season. At the Henry Shaw dinner on October 15, we honored Jack Jennings, photographer of the Garden's annual wall calendar for over 25 years. The Wing Ding Gala allowed us to honor long-serving trustee Evelyn Newman, who founded the Butterfly House. These awards will be covered in more detail next issue.

As we open the annual holiday flower and train show, a festive time of holiday events and family fun at the Garden, I ask for your help. The year-end appeal provides annual support for the Garden's on-going operating needs—the upkeep of the beautiful 79 acres of gardens we all enjoy here in St. Louis, as well as our family of attractions, and science and conservation activities around the world.

Chapungu artist Sanwell Chirume wrote about his sculpture *Big Buck Surrendering* "We can hide from the hunters and run from the bullets, but we cannot sustain the pollution of the rivers, the cutting of the trees, and the destruction of our environment." Your contribution to the year-end appeal at this crucial time helps support the Garden's ongoing work to reverse damage done and build a stronger, *sustainable* future.

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

Board of Trustees

Mr. Nicholas L. Reding, *Chair*
Carolyn W. Losos, *Vice Chair*
Catherine B. Berges
Rev. Lawrence Biondi, S.J.
Mr. Stephen F. Brauer
Prof. Sir Peter R. Crane FRS
Mr. Arnold W. Donald
Mr. Charlie A. Dooley
Mr. L. B. Eckelkamp, Jr.
Dr. Thomas F. George
Mr. Edward D. Higgins
Mr. David Hollo
Mr. David W. Kemper
Mr. S. Lee Kling
Mr. Charles E. Kopman
Mr. Hal A. Kroeger, Jr.
Cheryl Morley
Mr. Jai Nagarkatti
Mr. Scott C. Schnuck
Dr. Henry Gerard Schwartz, Jr.
Mr. Rex Sinquefield
Nancy R. Siwak
The Hon. Francis G. Slay
The Rt. Rev. George Wayne Smith
Mr. Robert B. Smith
Mr. Andrew C. Taylor
Mr. Barrett Toan
Dr. Mark S. Wrighton

Emeritus Trustees

Mr. Clarence C. Barksdale
Mr. John H. Biggs
Mr. William H. T. Bush
Mr. Bert D. Condie III
Mr. M. Peter Fischer
Mrs. Marilyn Fox
Ms. Margaret B. Grigg
Mr. Robert R. Hermann
Mrs. Warren G. Keinath, Jr.
Mr. Ralph Korte
Mr. Robert E. Kresko
June M. Kummer
Mr. E. Desmond Lee, Jr.
Doris Lichtenstein
Lucy Lopata
Mr. Douglas B. MacCarthy
Mr. James S. McDonnell III
Mr. Jefferson L. Miller
Mr. Lucius B. Morse III
Dr. Helen E. Nash
Evelyn E. Newman
Mrs. Linda O'Hara
Mr. William R. Orthwein, Jr.
Mr. Roy Pfautch
Mrs. Lucianna Gladney Ross
Mr. Anthony F. Sansone, Sr.
Mr. Warren M. Shapleigh
Mr. Joseph Shaughnessy
Mrs. C. C. Johnson Spink
Mrs. Walter G. Stern
Dr. William K. Y. Tao
Mr. Jack E. Thomas, Jr.
Mrs. Robert P. Tschudy
Dr. George E. Thoma
Mr. John K. Wallace, Jr.
Mr. O. Sage Wightman III
Mrs. Raymond H. Wittcoff
Mr. Harry E. Wuertenbaecher, Jr.

Honorary Trustees

Dr. Werner Greuter
Dr. Surinder M. Sehgal

Members' Board

Carol Squires, *President*

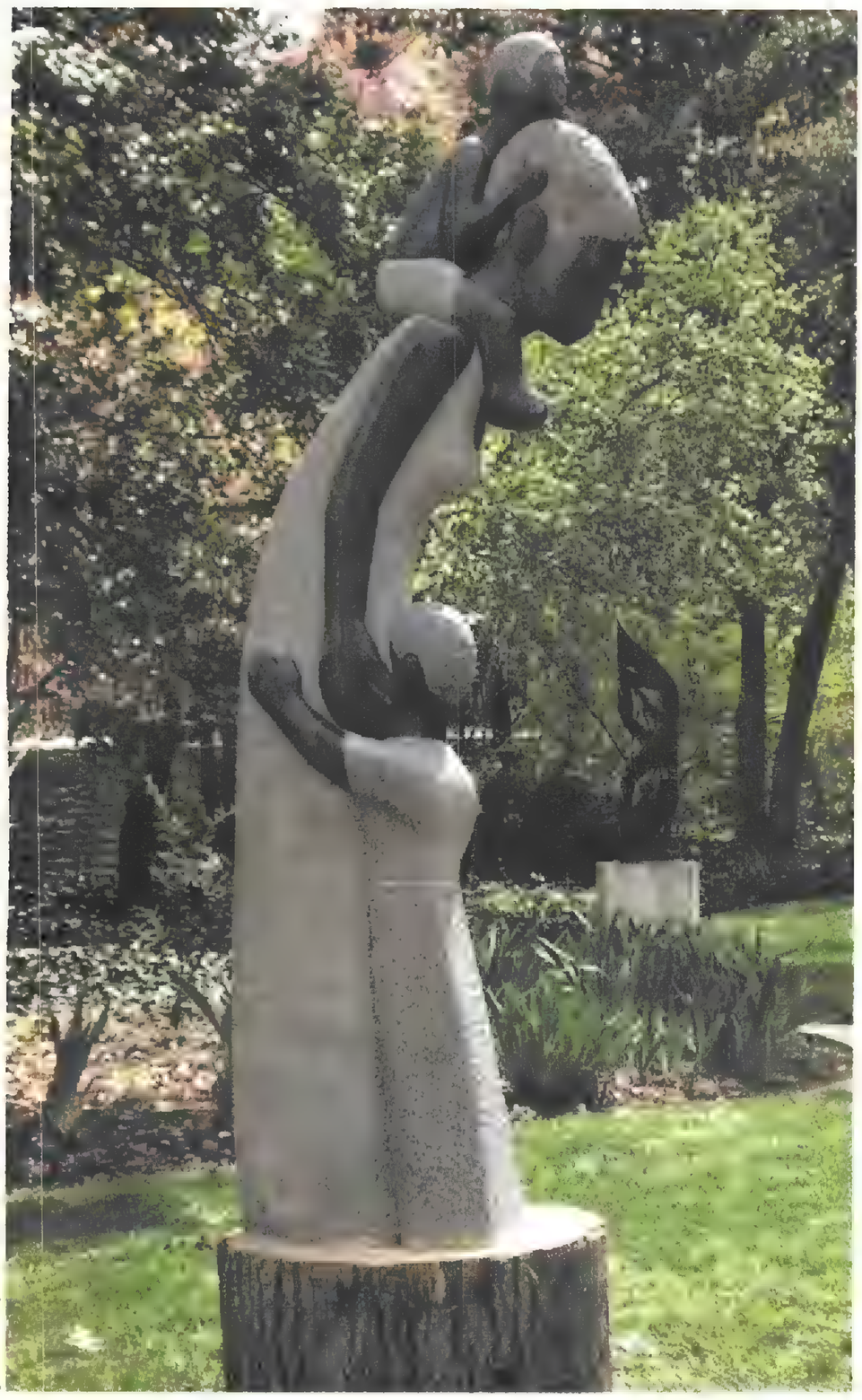


photo by Brian Mueller

Me Too Mama by Taylor Nkomo.

Chapungu Closes Amid Fanfare

Six months after a grand opening in late April, *Chapungu: Nature, Man, and Myth* was drawing to a close as this *Bulletin* issue went to press. The exhibition of 23 monumental, hand-carved stone sculptures by Zimbabwean artists displayed in the beautiful natural environment of the Garden was described in the local media as "stunning, magical, and awe-inspiring." Not only does the artwork speak to humanity's abiding connection to nature, but also to the strong relationship the Garden has with Africa. With nearly 800,000 African specimens in our herbarium and online, the Garden is the number one center for the study of African botany in the U.S.

Over the course of the summer, six artists from Zimbabwe visited and gave demonstrations of their art. Over 80 students took artist-led workshops to create their own Chapungu sculptures. Many described it as a "life-changing experience." Visitors who enjoyed the exhibition were also able to purchase Chapungu art for their own homes. Two sculptures from our first Chapungu exhibit in 2001 remain permanently on Garden grounds: *Sole Provider* and *Protecting the Eggs*, both near the Lopata Azalea-Rhododendron Garden.

Best of Missouri Market Sets Records

The 16th annual Best of Missouri Market® was a record-breaking success, with attendance of 25,417 visitors—up again from last year's record-setting attendance. In addition, 1,339 visitors purchased new or renewed Garden memberships, another record. This event would not be possible without the hard work and dedication of co-founders and co-chairs, Nora Stern and Ellen Dubinsky. Our appreciation goes to Nora and Ellen, the Members' Board, and all volunteers and staff, who work to make this event grow each year. The Garden recognizes the generosity of our lead sponsor, Schnuck Markets, Inc. The Best of Missouri Market was also supported by Central States Coca-Cola Bottling Company, Commerce Bank, AgriMissouri, Edward Jones, IR Climate Control Technologies/Hussmann Corporation, McBride & Son Homes, UniGroup, Inc., U.S. Bank, and Waterway Gas and Wash. Additional thanks to KMOX, Great Harvest Bread Company, The Home Depot, Ronocco Coffee, and the Girl Scout Council of Greater St. Louis.

photo by Leslie Wallace

Children's Garden Closed for the Season

As the *Bulletin* went to press, plans were in place for the seasonal closing of the Doris I. Schnuck Children's Garden. Visitors were invited to celebrate all things wild—collecting wildflower seeds from the Children's Garden prairie, making a wild ruckus with natural noisemakers in the Nature Explore Classroom, and creating wild crafts, such as a wildlife-habitat hat!

Best Music Festival in St. Louis

The Garden's annual Whitaker Music Festival was named the best music festival by the *Riverfront Times* in their Best of St. Louis issue this year. Citing the festival's beautiful location, the editor notes that visitors are invited to picnic, sit where they like, and linger—"perfect for wiling away a lazy, hazy summer night." The festival is funded by the Whitaker Foundation, which supports St. Louis arts and parks to promote common heritage, celebrate diversity, and encourage vitality within the community. Congratulations, Whitaker Music Festival! The concerts are the work of the Garden's public events team, including manager James Kalkbrenner, coordinator Heather Arora, assistant Betty Mays, and a talented team of staff and volunteers.

A "plant-off" at Nursery Day 2007. Two teams race to unpot plants using different types of containers. A new "potless" system wins—both for speed and environmental friendliness.

Nursery Day Success

Nursery Day is an annual day of fun and education at the Garden for green tradespeople, professionals from garden centers, growers, landscape designers, and maintenance managers. This year's event on Thursday, August 16, was one of the hottest days of the year, but that didn't stop over 180 plant professionals from attending. The program included workshops and talks on subjects ranging from plant trials to horticultural plastic recycling to the new Plants of Merit award winners and the Garden's gardeninghelp.org website.

Nursery Day received sponsorship from Ball Horticultural Company, the Missouri Landscape and Nurseryman's Association of Greater St. Louis, Forrest Keeling Nursery, and Home Nursery.

Global Warming: Are We Running Out of Time?

Thursday, November 15, 6:30 to 9:30 p.m., Spink Pavilion
Science Café presents Dr. Peter Raven, president of the Missouri Botanical Garden. Serious effects of human-induced global warming are being felt widely, and without urgent action will cause a number of uncontrollable consequences. What are these likely to be, and how can we avoid them? Cost: $20 ($15 for Garden or Science Center members; $10 students). Includes complimentary drink ticket and light snacks. Cash bar available. Limited seating. Reservations required, so please call (314) 289-4424. A joint production of the Saint Louis Science Center and the Missouri Botanical Garden, Science Café offers stimulating conversation in an informal setting each month.

LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

Recycle with us! It's holiday time at the Little Shop Around the Corner, where a festive atmosphere greets shoppers who will find wonderful gifts awaiting a new home. Our merchandise is an assortment of lovely collectibles, antique furniture, and household treasures, all of which have been donated. All purchases benefit the Garden, and Garden members enjoy discounts of 20 percent during members' holiday sales November 7–11 and December 5–9. So stop by our little corner near the intersection of Shaw and Vandeventer, just one block from the Garden.

photo by Dale Dufen

EarthWays Center.

Best Place to Go Green

BEST OF ST LOUIS RFT 2007 WINNER

In continuing *Riverfront Times* news, the Garden's EarthWays Center was awarded the title "Best Place to Go Green" by editors of their annual "Best Of" issue. Following public interest in the film *An Inconvenient Truth*, the EarthWays Center has become even more popular, but its history predates that popularity to a time when the Victorian house was a run-down shell in Grand Center where a group decided to establish a model of sustainable living. Today, the EarthWays Center is the headquarters of the U.S. Green Building Council's St. Louis regional chapter, as well as the hub of educational work in the schools and throughout the community. The EarthWays Center's sixth annual Green Homes Festival and House Tour drew a record attendance this September. Festival-goers purchased over 6,000 energy-efficient compact fluorescent bulbs to replace inefficient incandescent lighting, keeping 7 million pounds of carbon dioxide out of the atmosphere. Public tours are offered the third weekend of each month, so if you missed the festival, stop by November 17–18 or December 15–16 to learn simple steps you can take to save money—and the planet!

photo by Kristi Foster

Recycled pop tops create chic eco-friendly handbags.

Green Holiday Shopping

Green isn't just for summertime anymore! This holiday season, why not "green" your shopping? The Garden Gate Shop offers a fine assortment of recycled, sustainable, and Fair Trade products for the perfect gift. There are outdoor rugs made from recycled soda bottles; colorful welcome mats made from recycled flip-flops; and durable outdoor Adirondack chairs made from recycled milk jugs. A trendy accessory line features pop tops turned into handbags; juice boxes fashioned into sandals, belts, and purses; and bottle caps used to make jewelry. Recycled saris are made into jackets and skirts. The best-selling line of soaps is made locally from organic botanical ingredients and packaged in recycled paper. Members enjoy discounts of 20 percent and more during the members-only holiday sales November 7–11 and December 5–9. So this season, green it like you mean it, and visit the Gate Shop for your holiday shopping.

Signature Holiday Cards and Calendar

The 2008 Garden wall calendar and holiday cards featuring the images of Jack Jennings are available now in the Garden Gate Shop.

photo by Jack Jennings

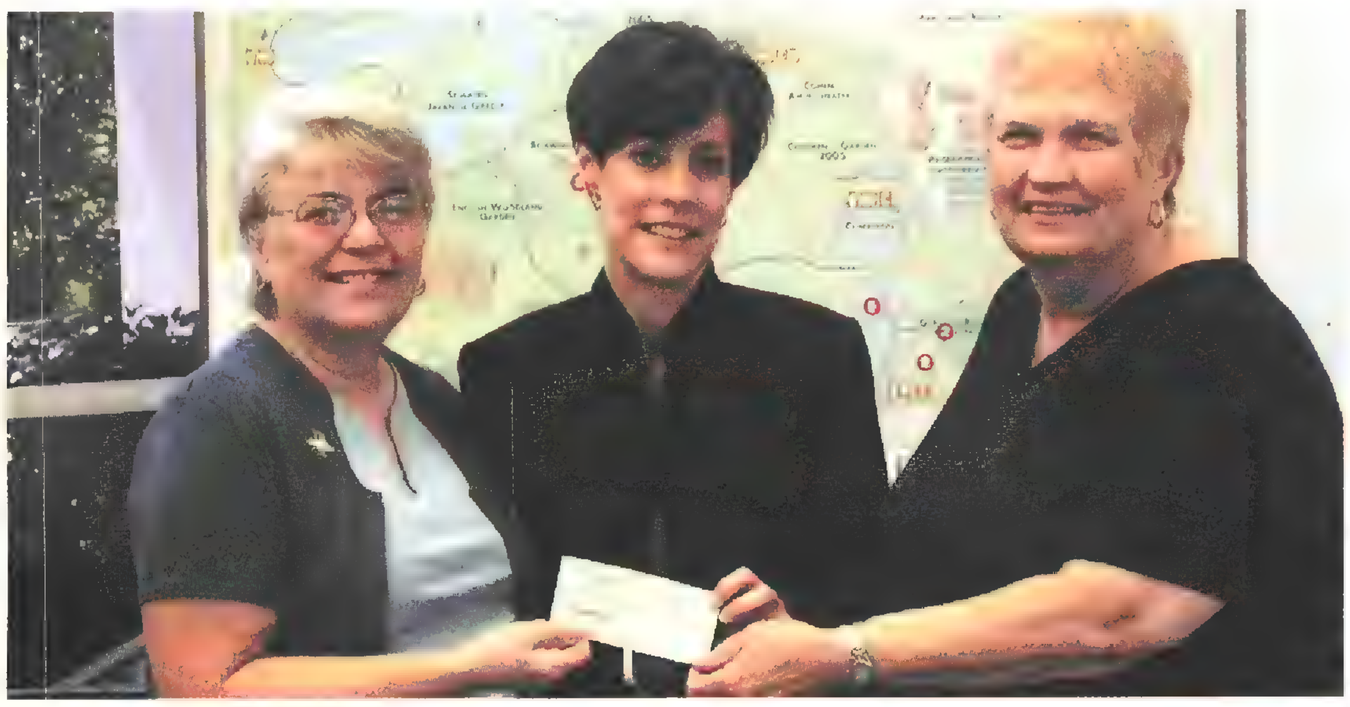


photo by Jessica Smith

Federated Garden Clubs Gift

The Garden is grateful for a recent donation by the Federated Garden Clubs. Co-chairs Barbara Renshaw (*left*) and Apryl Reinsch (*right*) present a check to the Garden's Senior Vice President of Institutional Advancement, Sharon Mertzlufft. The gift will help support horticultural education programs.

Corporate Partner Principal Profile: Monsanto Company

The Corporate Partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater St. Louis metropolitan region. Corporate Partners at the Principal level offer support and leadership at the highest level, and the Garden is recognizing their contributions in a series of Bulletin profiles.

The original Monsanto Company, founded in St. Louis in 1901, has emerged today as an agricultural company focused on supporting farmers on all continents in their mission to feed, clothe, and fuel our growing world.

Headquartered in St. Louis, Monsanto Company produces seeds and seed technologies, herbicides, and animal agriculture products. Monsanto employs more than 18,000 people worldwide and had global sales totaling over $7.3 billion dollars in fiscal year 2006. Through the Monsanto Fund, currently led by President Deborah J. Patterson, the company has been a generous corporate benefactor in the St. Louis region for decades.

Monsanto has been a key corporate supporter of the Missouri Botanical Garden for the past 40 years, most visibly as the lead donor in the campaign to fund the state-of-the-art Monsanto Center on Shaw Boulevard, opened in 1997. This building houses the Garden's research operations, herbarium, and library. For the *Stewards of the Earth* campaign, the Monsanto Fund generously supported the Monsanto Canopy Climb in the new Doris I. Schnuck Children's Garden: A Missouri Adventure. A corporate partner at the principal level since 1999, Monsanto has also provided support by matching employee gifts to the Garden.

The Garden has benefited from the volunteer leadership of Monsanto executives, past and present. The Garden's Chairman of the Board, Nicholas L. Reding, retired as Vice Chairman of Monsanto, and trustee Cheryl Morley is currently Monsanto's Senior Vice President for Corporate Strategy.

"We are very grateful for Monsanto's generous and sustained donations of both financial resources and leadership," says Garden President Dr. Peter H. Raven.

Events

Many of the fun activities at Carols in the Garden.

Christmas Carols in the Garden

Saturday-Sunday, December 8–9, 1 to 5 p.m., Garden grounds
Santa in his sleigh, musicians and carolers, and roasting chestnuts—it's all part of this celebration of the sounds of the season. Five choirs, a brass ensemble, a jazz combo, and a harpist will perform throughout Garden grounds. Mulled cider, hot chocolate, and cookies will be available for purchase, and the Garden Gate Shop will be open for holiday shopping. Don't miss this year's special display of gingerbread houses.

Hours: Saturday-Sunday, December 8–9, 1 to 5 p.m., Garden grounds

Admission: $10 adults (age 13 and up); $7 seniors (65+); $3 children (ages 3–12); free for children 2 and under; $3 Garden members; free for upper level members, and members' children 12 and under

Holiday Wreath Display

November 16 through January 1, 2008, Ridgway Center
Wreaths by the area's finest floral designers deck our walls this holiday season—and yours too, should you bid on one in the silent auction to benefit the Garden.

Chanukah: Festival of Lights

Sunday, December 2, noon to 4 p.m., Ridgway Center
This traditional Jewish holiday celebration includes Israeli music and dance, a menorah-lighting ceremony, and Chanukah merchandise.

Kwanzaa: First Fruits

Friday, December 28, noon to 4 p.m., Ridgway Center
This contemporary African-American holiday features a harvest feast table, storytelling, and authentic African drumming and musical performances.

Victorian Christmas at Tower Grove House

The Victorian country home of Garden founder Henry Shaw will be decked out with wreaths, garlands, floral centerpieces, greenery, and a holiday tree trimmed with timepieces and roses, Shaw's favorite flower. Younger visitors can be on the lookout for a "house cat" in hiding. Visit the house Monday through Saturday 10 a.m. to 4 pm; Sunday 1 to 4 p.m.; closed Mondays.

photo by Josh Monken

Gardenland Express.

The Garden's beloved miniature railroad and plant display returns November 21. Taking a cue from the great lodges and landscapes of America's national parks, this year's Gardenland Express will feature a rustic "wilderness escape" theme, with a replica of Yellowstone National Park's Old Faithful Inn and the Old Faithful geyser as the centerpiece.

Gardenland Express is a temporary installation, created afresh each year by the Garden's floral display designer Patricia Scace, staff, and volunteers. In fact, Garden volunteers used their artistic talents this year to create murals and a small-scale mountain range in the miniature Yosemite National Park. Horticulturists use dwarf conifers, shrubs, succulents, and moss to create rolling hills, valleys, and mountains. Exhibits are surrounded by hundreds of poinsettias. Daily watering keeps everything green throughout the six-week show. Starting in early November, catch a glimpse of the railroad garden installation in progress online at www.mobot.org/hort. Click on "Activities and Events."

Members' Evening
Wednesday, November 28, 5 to 8 p.m.
Don't miss this members-only party and magical evening viewing of Gardenland Express. Cash bar, musical entertainment, special holiday menu in Sassafras, and fabulous holiday shopping in the Garden Gate Shop.

Hours: Wednesday, November 21 through January 1, 2008, from 9 a.m. to 5 p.m. daily (open till 8 p.m. Dec. 26–28). Closed December 25.

Admission: $3 in addition to Garden admission. Members are admitted free.

Sponsors: The Container Store; CBIZ Accounting, Tax & Advisory/Mayer Hoffman McMann P.C.; Miss Marian L. Herr; Fifth Third Bank.

Members' Events

Breakfast with Santa.

Breakfast with Santa

Saturday, December 1, 8 to 10:30 a.m., Sassafras
Visit with Santa when he makes his yearly stop at the Garden. Create a holiday craft and enjoy breakfast in Sassafras. Menu includes waffles, scrambled eggs, bacon, hash brown potatoes, biscuits, and mini-pastries, served with milk, orange juice, and coffee. Bring a pair of mittens or a child's hat to donate to a neighborhood charity. Tickets are $16 per person (children under 2 are free). Seating is first come, first served. Reservations required; please call (314) 577-9570, or visit www.mobot.org/membership.

Members' Day: Holiday Decorating

Friday, November 2, 11 a.m., Shoenberg Theater
Schnuck Markets, Inc.'s florist and event coordinator Rhonda Lynn Moeckel shares holiday tablescapes with the latest ideas and seasonal tips for transforming your home into a welcoming wonderland.

Member Orientation and Tour

Saturday, November 3, noon, Shoenberg Theater
Get the lowdown on events, discounts, classes, and all the benefits membership offers. Participants receive Bonus Bloom passes and discounts in Sassafras and the Garden Gate Shop. Friends who might be interested in joining as members are also welcome.

Jeff Guinn and Chef Lars Cooking Demonstration

Thursday, November 29, 1 to 3 p.m., Kemper Center for Home Gardening
Jeff Guinn will visit the Garden for a book signing with one of his famous characters, the chef at the North Pole, Lars, who will illuminate the fascinating history and lore that surrounds popular Christmas meals. Tickets are $20. Seating is limited. Reservations required; please call (314) 577-5154 by December 5 to reserve your seat.

Victorian Holiday Evening

Saturday, December 1, 6 to 8:30 p.m., Ridgway Center
Enjoy an old fashioned holiday evening with your family at the Garden, including a sumptuous buffet dinner and dancing. Gardenland Express will be open, so bring your camera for those special family photos. Tickets are $50; youth $30 (ages 13-21); and children $20 (ages 12 and under), children 2 and under are free. Reservations required; please call (314) 577-9570, or visit www.mobot.org/membership.

Members' Day: Holiday Concert

Saturday, December 8, 1 p.m., Shoenberg Theater
Music is a hallmark of the holiday season. Join us as the United States Air Force Bank of Mid-America – Midwest Winds perform a holiday concert at the Garden. Seating is first come, first served.

Tower Grove House Auxiliary Holiday Luncheon

Monday, December 10, noon, Spink Pavilion
Join the Tower Grove House Auxiliary for our special holiday luncheon with all proceeds to benefit the Tower Grove House. Tickets are $25 each and include admission to Gardenland Express. Seating is limited. Reservations required; please call (314) 577-5154 by December 5 to reserve your seat.

The Little Big Book of Christmas

Tuesday, December 11, 1 to 3 p.m., Shoenberg Theater
Author Lena Tabori signs copies of her heart-warming *Little Big Book of Christmas*. Tickets are $10 for adults and $5 for children, payable in cash or check at the door. Call (314) 577-5154 for additional information.

Holiday Lights Bus Tour

Thursday, December 13, 5 p.m.
Join the Tower Grove House Auxiliary for a holiday lights bus tour of a very special private residence. Bus departs from the Ridgway Center at 5 p.m. and returns at 8:30 p.m. Boxed meals will be served. Tickets are $35 per person. Seating is limited. Reservations required; please call (314) 577-5154 by December 5 to reserve your seat.

Gift Memberships

Struggling to find the perfect gift for someone special? Garden membership is a wonderful gift that can be enjoyed throughout the year. Purchase regular (or senior) gift memberships at a 20 percent discount during the Garden Gate Shop holiday sales, November 7–11 and December 5–9. Regular-level gift membership becomes $48—a savings of $12! Discounts apply to on-site sales only. Call (314) 577-5118 for more details.

KIDSTUFF

A Winter Wonderland of Fun with Nature

Even though the Doris I. Schnuck Children's Garden has now closed for the season, parents, grandparents, and youngsters can still discover the amazing wonders of nature together through a variety of programs offered this winter at the Garden. Garden members always enjoy discounts and the following classes are still available. Call (314) 577-9506 or visit www.mobot.org/education for more information.

NEW

Holiday Little Sprouts

Mondays or Tuesdays, 10 to 11:30 a.m., starts November 12

Little Sprouts programs for children ages 2–3 accompanied by an adult are offered throughout the year. New this year is Holiday Little Sprouts. Learn about all the changes in the Garden during winter, create holiday crafts and gifts, and even bake a special treat. Cost includes both child and adult: $64 for Garden members ($72 non-members). Hurry! This class is almost full.

Garden Buds

Thursdays, 10 to 11:30 a.m.; Sundays, 1 to 2:30 p.m.

Explore nature with your child or grandchild, ages 4–5. Each 90-minute class includes a walk, hands-on indoor activities, story, and snack. Cost includes both child and adult: $16 for Garden members ($18 noon-members). Why not try all three?

Evergreen: A Special Tree for Me!

Sunday, November 11 or Thursday, November 15

Soft and smooth, prickly and pointy! We'll find out what an evergreen is, discover who lives in them, and use evergreens to make a special craft.

Sugar and Spices

~~*Sunday, November 18*~~ *(sold out) or Thursday, December 6*

Something smells delicious! We'll walk through the Climatron and learn about the plants that make spices. Then we're off to the kitchen to bake spicy treats!

The Garden's Winter Wonderland

Sunday, November 25 or Thursday, November 29

We'll venture out and identify changes in nature during winter, including plants, reptiles, birds, and insects as they prepare for the cold season.

A wintery view of the Climatron® during the holidays.

Senior Gift Certificates

Offered through the Garden's innovative Horticultural Therapy (HT) program, the Senior Education Programs enrich the lives of senior citizens with limited resources and/or abilities. Garden instructors lead plants and gardening activities in creative ways to improve mental and physical health and well-being. The Oaks-and-Acorns program encourages seniors to make a botanical project with grandchildren or youngsters in their lives. For more information or to purchase gift certificates, call (314) 577-9506.

photo by Todd Gilbert

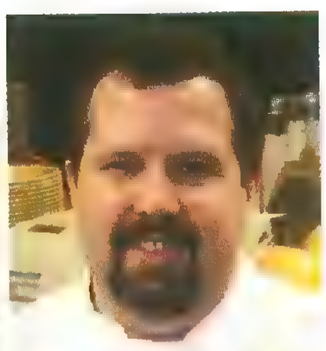


photo by Bart Mc Ivor

Lynn Heerman

Botany of a Thanksgiving Club Sandwich

Twice a year, the menu in Sassafras changes with the seasons, from spring/summer to fall/winter, and back. To mark the occasion, we present a recipe by chef Lynn Heerman along with a botanical explanation of the ingredients by Assistant Curator Dr. Wendy Applequist, the Garden's specialist in medicinal plants.

What to eat on that Friday afternoon when you have finally put away the last piece of china and crystal? May we at Sassafras suggest the Thanksgiving Club. Members enjoy a 10 percent discount in Sassafras on Members' Days (November 2 and December 8).

The Recipes

Cranberry Sauce
12-ounce bag cranberries
1¾ cup apple cider
¾ cup honey
2 cinnamon sticks
1 tablespoon orange peel
6 whole cloves
1 bay leaf
Pinch of salt

Combine all ingredients in a heavy saucepan. Bring to a boil over medium heat. Simmer until berries burst and thicken. Remove cinnamon sticks, cloves, and bay leaves. Refrigerate.

Sage stuffing
1 pound crusty country style bread
¼ cup olive oil
1 tablespoons chopped fresh thyme
2 tablespoons chopped fresh sage
1 clove garlic minced
1½ cup chopped onion
1½ cup chopped celery
2 tablespoons butter
⅓ cup chopped fresh parsley
1¾ cup chicken stock, boiling

Cut bread into cubes, mix with oil, thyme, sage, and garlic. Roast in 375 degree oven on a sheet pan until golden brown, about 20 minutes. Cook onions and celery in butter until tender. Add parsley. Stir. Mix in toasted bread cube mixture and add boiling stock. Cover and let sit for 10 minutes.

Gravy
Mix ¼ pound butter and ½ cup flour in a large saucepan. Over medium heat stir and combine these ingredients to make white rue. Slowly add 4 cups of hot chicken stock, stirring constantly until proper consistency is achieved.

The Open-face Sandwich
Start with a grilled piece of Texas toast. Layer it with turkey, cranberry sauce, stuffing. Ladle gravy over top to taste.

photo by Todd Gilbert
Dr. Wendy Applequist

Botanical Facts

Assistant curator Wendy Applequist, Ph.D., works on the authentication, taxonomy, conservation, and chemical variability of medicinal plants.

Native to North America, CRANBERRY (*Vaccinium macrocarpon*) vines are grown on acidic, peaty soil in bogs that are flooded at harvest to collect the floating berries. Cranberries are high in vitamin C, and the juice can prevent recurrent bladder infections by interfering with bacterial adhesion.

The cultivated APPLE (*Malus* spp.) originated in Kazakhstan, from which it spread widely. The Romans found prehistoric Celts already manufacturing cider. In colonial America, hard cider was the most popular alcoholic beverage, often preferred to water because fermentation kills bacteria. Unfermented "soft cider" is simply unfiltered apple juice.

CINNAMON (*Cinnamomum verum*) is the bark of a small Southeast Asian tree. In the U.S., most cinnamon sold is cassia cinnamon, harvested from a related species, which is harder and somewhat stronger in flavor. A few clinical trials have suggested that cassia cinnamon may cause modest reductions in blood glucose levels, insulin resistance, or blood pressure.

Probably of Chinese origin, the ORANGE (*Citrus xaurantium*) is a hybrid that exists only in cultivation. Both bitter and sweet oranges resulted from crosses between the mandarin and the pummelo. A much later backcross between sweet orange and pummelo created the grapefruit. One orange provides the recommended daily allowance of vitamin C.

CLOVES (*Syzygium aromaticum*) are the hardened, dried flower buds of a tree native to Indonesia and the Philippines. Clove oil is an effective dental anesthetic, and cloves are strongly antibacterial. A "clove orange," made by covering an oily-skinned orange with pressed-in cloves, dries without rotting and smells pleasant to humans, while reputedly repelling insects.

BAY LEAF is the leaf of the laurel tree, or *Laurus nobilis*. The ancient Greeks associated laurel with divinity, and victorious athletes or warriors were crowned with laurel wreaths. It is from this custom that we derive the term "laureate" for an honored person — as well as the phrase "resting on one's laurels"!

Nobody is sure where OLIVE (*Olea europaea*) was first domesticated, but by biblical times it was treasured from Italy to Egypt for its oil, which was used for food, medicine, ointment, lubrication, lamp fuel, and soap. Olive oil is high in monounsaturated fat, a "good" fat that may reduce the risk of several chronic diseases and contribute to the health benefits of the "Mediterranean diet."

The ancient Greeks believed that THYME (*Thymus vulgaris*) inspired courage, and medieval ladies embroidered sprigs of thyme on scarves given to knights as favors. The herb was also thought in medieval days to be a favorite plant of fairies. Today, thyme is valued as a culinary herb and to treat coughs.

The culinary herb SAGE (*Salvia officinalis*) has been long reputed to enhance memory and health, and is used to treat sore throats. Small clinical trials have shown that sage may improve cognitive performance both in healthy people and in Alzheimer's patients, and that a sage spray can indeed relieve a sore throat.

ONIONS (*Allium cepa*) have been cultivated for at least 5,000 years and, like the related garlic, contain antibacterial and antiviral compounds. They were an important part of the diet for ancient Egyptians, who saw the multilayered bulb as a symbol of eternity and placed onions in or around the mummified bodies of the dead.

Scientific data support the traditional Chinese and Middle Eastern use of CELERY (*Apium graveolens*) to lower blood pressure. It not only contains compounds that relax blood vessels, but has a diuretic effect and an excellent ratio of potassium to sodium.

PARSLEY (*Petroselenium crispum*) has a widespread use in folk medical traditions; most notably, the root is used as a diuretic, an effect confirmed by animal studies. Parsley is commonly employed during the Jewish holiday of Pesach or Passover as a green vegetable symbolizing rebirth and spring.

For millennia, GARLIC (*Allium sativum*) has been used to treat a wide variety of infections and conditions ranging from worms to heart disease. During World War I, British doctors requisitioned tons of garlic for treatment of wounds to prevent infection.

All ages enjoy the beauty and adventure of the Garden.

The Gift of the Garden

Searching for that perfect gift for someone special this holiday season? Give the Gift of the Garden! There are so many ways to make a special, customized present, while enjoying that warm, fuzzy feeling of benefiting the Garden at the same time.

Purchase a Garden membership, commemorative brick, paver, or tribute in honor of your loved one. You can even help preserve a rare book in the library! **Just complete the enclosed form and return it in the envelope provided.**

For more details on these and other giving programs, call (314) 577-5118, or visit the Garden's website: www.mobot.org and click on "Membership" or "Donate."

Garden Membership

Membership makes a wonderful and convenient gift that can be enjoyed throughout the year. A Missouri Botanical Garden membership includes free admission to the Garden in all seasons, plus special events for members only, gift shop discounts, Bonus Bloom passes to enjoy, and much more! In addition to all the benefits of Garden membership, the recipient will have their choice of a special gift as our way of welcoming them to the Garden. Members may purchase senior- or regular-level gift memberships at a 20 percent discount during the Garden Gate Shop holiday sales, November 7–11 and December 5–9. Discounts apply to on-site sales only.

Bricks—Own a piece of the Missouri Botanical Garden!

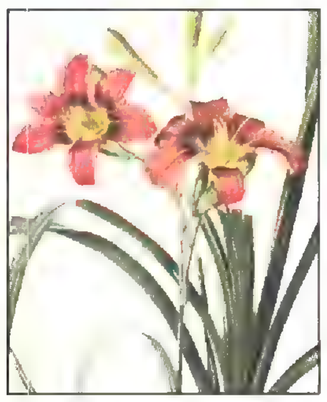
Honor someone with the permanence of architecture. Engraved clay and bronze bricks are an extraordinary expression of love and respect, and a holiday gift to last a lifetime. The recipients will enjoy your special memento every time they visit the Entry Court at the William T. Kemper Center for Home Gardening. Bricks are donated for all the occasions that fill our lives— holidays, birthdays, graduations, marriages, unique accomplishments and retirements, as well as final tributes. Your gift will keep the Garden's work alive and growing, as it builds a tradition of joyful memories for your family captured in a clay or bronze brick. For more information, call (314) 577-0874.

Pavers—Own a piece of the Butterfly House!

Make your memories last a lifetime at the Sophia M. Sachs Butterfly House when you purchase an engraved paving stone in the entry court. Future visits will be even more special as you view your butterfly-shaped paving stone created exclusively for you. For more information, call (314) 577-0291.

Tributes

This season, the Garden offers an easy way for you to complete your holiday shopping. Honor family and friends through a gift in their name. A personalized acknowledgment is sent to the honoree. Donations of $25 and up are listed in the Missouri Botanical Garden *Bulletin*. For more information, call (314) 577-0805.



Preserve a Rare Book

Help protect one of the Garden's treasures for generations to come. Your gift will help to preserve one of the Garden's rare books displaying beautiful images of botanical art. A special notation inside of the front cover recognizes the honoree. For more information, call (314) 577-9495.

photo by [illegible] Gilbert

Planned Giving Opportunities

The Garden was established through a planned gift. Henry Shaw's will made a gift to the future, a gift to perpetuate the things he loved and make available to the public, "a botanical garden easily accessible, which should be forever kept up and maintained." You too can leave a legacy to the Garden through charitable gift and estate planning. Many of the Garden's friends have chosen planned giving as a way to extend their loyal support of the Garden beyond their lifetimes, while realizing benefits for themselves today. For more information about the many different kinds of planned giving opportunities call, (314) 577-9455.

Act Now to Help the Garden

Use your IRA to make a gift to the Garden. The Pension Protection Act of 2006 provides an attractive way to make a donation of IRA funds while avoiding the income taxes typically paid on IRA withdrawals. If you are 70½ or older, you can donate up to $100,000 per year to the charitable organization of your choice—including the Garden—from your IRA without incurring either income tax or early withdrawal penalties. The provision ends this year on December 31, so it's important to leverage these benefits now. Call (314) 577-9455 for more information.

photo by Jack Jennings

Henry Shaw Fund

In order to maintain the Garden and improve services offered to members, we ask each year for contributions to the Henry Shaw Fund, our most important source for annual operating support. Won't you please consider making a tax-deductible gift as part of your charitable contributions for 2007? Your gift supports the Garden's plant science research here and abroad, extends recreational and educational programs for people of all ages, and nurtures the beauty of the Garden that is enjoyed by more than a million visitors annually. Individuals who contribute $150 or more to the 2007 Henry Shaw Fund will receive an additional benefit—a special set of limited-edition note cards featuring photographs by calendar photographer Jack Jennings. For information regarding the Henry Shaw Fund or to charge your gift by phone, please call (314) 577-9500.

Gardening

Greening Your Holiday Tree

Evergreens have been used as a symbol of life and hope in winter since ancient times. But are evergreens "green" in the sense of environmentally responsible? Christmas trees today are a farmed commodity just like corn or pumpkins. Almost 29 million cut trees were sold in North America last year during the 2006 holiday season. Agricultural trees are a renewable resource that can easily be recycled into mulch. Yet the holiday spirit can be dampened by the knowledge that many tree farms are conventional "monocrops," requiring the use of pesticides and the removal of natural diversity from the land.

Are artificial trees better? In short, probably not. Unless you own a vintage aluminum model from the 1950s, artificial trees today are made of unrecycled plastic, a petroleum product, and although they can be reused, they cannot easily be recycled. Green teaching touts the virtues of shopping local to avoid the energy expense and pollution of shipping. Real Christmas trees are grown in all 50 states (even Hawaii), which makes them a preferable option to fake trees, which are not produced locally.

In recent years, more options have become available. Organic fresh trees, grown without pesticides in climates more suitable to pines, are available from New England and Canada. Living trees, which can be planted outdoors after the holidays, are an investment in your landscape and a permanent memory of Christmases past. In the Pacific Northwest, holiday decorators can even rent a living Christmas tree, which is then removed after the holidays and planted at area schools or parks. Here in the Midwest, you will have to plant it yourself, but living trees are a fun environmental option. See below for moe details.

Holiday trimmings at the Kemper Center for Home Gardening this year feature a 15-foot balsam fir decorated with gourd birdhouses made from natural and recycled materials. The houses, suitable for wrens and purple martins, will go on sale to the public Friday, January 4 to benefit the Garden.

Living Trees, How-to

Identify a local living Christmas tree nursery. The Missouri Christmas Tree Grower's Association website has a good list: www.missourichristmastrees.org.

Prepare. Protect your floor where the tree will stand. A pizza box works well. Out in the yard, dig the planting hole before the ground freezes. Mulch and cover the backfill soil and the planting hole to keep them dry and unfrozen.

Select a tree likely to succeed in the St. Louis region. As most home gardeners know, many evergreens, especially pines, do not grow well in Missouri. The Garden's Plants of Merit program recommends Norway spruce (*Picea abies*). Even a Missouri native, such as the Red cedar (*Juniperus virginiana*) would be a sound option. Look for organically grown trees whenever possible.

Acclimate. Bring the tree into the garage, or other cool, shady, windless area, for a day before bringing indoors. Do the same before planting out in the yard.

Care. A living tree needs to be kept cool—60 degrees or lower. Station the tree in a window or corner; close off the heating vents. Keep roots damp, but do not overwater. One pint per day is enough. A local tree grower recommends dumping one tray of ice cubes on top of the rootball every day.

Decorate. If you're going green, decorate with LED lights, which are not only cooler, but use a fraction of the energy of other lighting. Since you'll be planting the tree outdoors soon, decorate with birdseed ornaments, popcorn and cranberry strings, dried flowers, and other botanical decorations.

Enjoy. Growers recommend no more than 10 days in the house. It's possible to go longer, if you keep the room cool.

Plant. Make it a New Year's Day tradition. Plant your tree promptly, when the weather is not excessively cold or windy.

What to do in your garden now...

clip and save

www.gardeninghelp.org

November

all month

- ❑ Prevent insects or diseases from overwintering by removing and composting all plant debris. Till under any unused, finished compost to expose insect pests to cold.
- ❑ Now is the ideal time to plant trees and shrubs. Prepare the site by loosening the soil beyond the drip line of each plant. Plant no deeper than they grew in the nursery. Remove all wires, ropes, and non-biodegradable materials from roots before back filling. Apply a 2–3 inch mulch layer, but stay several inches away from the trunk. Keep the soil moist to the depth of the roots.
- ❑ Collect soil samples to test for pH and nutritional levels.
- ❑ Keep leaves raked up off of the lawn to prevent injury. A final fall application of fertilizer can be applied to bluegrass and fescue lawns.

week 1

- ❑ Plant tulips now.

week 2

- ❑ Newly planted broadleaf evergreens such as azaleas, boxwood, and hollies benefit from a burlap screen for winter wind protection. Set screen stakes in place before the ground freezes.
- ❑ Shut off and drain any outdoor water pipes, hoses, or irrigation systems that may freeze during cold weather.
- ❑ Set up bird feeders. Birds appreciate a source of unfrozen drinking water during the winter.

week 3

- ❑ Just before the ground freezes, bury root crops (carrots, radishes, turnips, and Jerusalem artichokes) under a deep layer of leaves or straw. Harvest as needed during winter by pulling back this protective mulch.
- ❑ Mulch strawberries for winter with straw. Apply straw loosely, but thick enough to hide plants from view.
- ❑ House plant basics for winter: reduce or eliminate fertilizer until spring. Shorter days mean slower growth. Slower growth means less frequent watering. Plants in plastic pots need less water than those in clay pots. Plants in cooler rooms need less water and grow slower than those in warm rooms.

week 4

- ❑ Cover garden pools with netting to prevent leaves from fouling the water. Oxygen depletion from rotting organic matter can kill pond fish. Take steps to prevent garden pools from freezing solid in winter. Covering pools with an insulating material, or floating a stock tank water heater in the pond, will lessen the chance of ice damage.
- ❑ Roses should be winterized after a heavy frost. Place a 6–10 inch deep layer of mulch or topsoil over each plant. Prune sparingly, just enough to shorten overly long canes. Climbers should not be pruned at this time.
- ❑ To prevent injury from frost, mulch flower and bulb beds after the ground freezes.

photo by Leslie Wallace

December

all month

- ❑ On cold nights, move houseplants back from icy windows to prevent chilling injury.
- ❑ Overwintering geraniums like bright light, cool temperatures, and soils on the dry side.
- ❑ Water houseplants with tepid water, cold may shock them.
- ❑ Be sure the root zones of azaleas and rhododendrons are mulched. Oak leaves, shredded oak bark, or pine needles are preferred.

week 1

- ❑ Clean and oil garden tools before storing for winter.
- ❑ Winterize power equipment before storing. Change the oil and lubricate moving parts. Either drain fuel systems or mix a gas stabilizing additive into the tank.
- ❑ Apply mulches to bulbs, perennials, and other small plants once the ground freezes.
- ❑ If you feed rabbits corn or alfalfa, they may leave fruit tree bark unharmed.
- ❑ Hairspray helps keep seed heads and dried flowers intact on wreaths and arrangements.

week 2

- ❑ Holiday poinsettia basics: sun for at least half the day, keep away from drafts, registers, and radiators. Night temperatures in 50s or low 60s; days at 70 degrees. The soil should dry only slightly between thorough waterings. Discard the drainage. Be sure to punch holes in decorative foil wraps to prevent soggy soil conditions.
- ❑ Trim hollies and decorate with the prunings. Only female trees bear the berries. If fruits are desired, a male tree must be growing nearby for pollination.
- ❑ Christmas trees hold needles longer if you make a clean, fresh cut at the base and keep the trunk standing in water.

week 3

- ❑ Living Christmas tree basics, see page 14.

For additional information on plant care and gardening:
- *visit the William T. Kemper Center for Home Gardening.*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org.*

Featured Plant of Merit™

www.gardeninghelp.org

Arborvitae
Thuja 'Green Giant'

This evergreen sentinel is fast growing and tolerant of clay soil. Fans of fresh apple-green foliage soften the hard lines of walls and driveways. Staying clean and bright, it is perfect in groupings or mass plantings where it can be used as a beautiful backdrop for gardens, screens, and landscapes.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs at www.plantsofmerit.org

Garden at Large

Shaw Nature Reserve

Hwy. 100 & 44 (exit 253), Gray Summit, MO 63039
phone: (636) 451-3512 • www.shawnature.org

Bascom House at Shaw Nature Reserve decorated for the holidays.

Holiday Time at SNR

Visit the Shaw Nature Reserve and take an autumn stroll. Enjoy the last few lingering gentian in the prairie and some Eastern witch hazel in the woods, as the frost-cured prairie turns into a mosaic of russet, tan, and gold. Stop by the Bascom House to enjoy the sights and smells of holiday decorating with fresh evergreens. On Saturday, December 15, from 10 a.m. to 4 p.m., there will be a holiday centerpiece demonstration with arrangements for sale.

Overnights

The Dana Brown Overnight Center features rustic dormitory-style log cabins, and the chance to be outdoors in nature at the Shaw Nature Reserve in the evening and early morning. Several overnights are offered throughout the year. Meals are included, and a map and list of what to bring will be sent prior to the class. Call (636) 451-3512, ext. 6075 for more details or to register.

Photography Workshop with Jim Rathert
Saturday, November 10 at 3 p.m. to
Sunday, November 11 at 3 p.m.
Join Jim Rathert, the long-time nature photographer for the Missouri Department of Conservation for an intermediate/advanced class in digital photography. Cost is $150 for Garden members ($175 non-member).

Mother-Daughter Weekend
Friday, December 7 at 7 p.m. to
Sunday, December 9 at 11:30 a.m.
Designed for mothers with daughters 9 years and older, participants will make beautiful handmade paper and nature journals, hike the surrounding area, and relax by the fire. Cost is $100 per person for Garden members ($110 non-member).

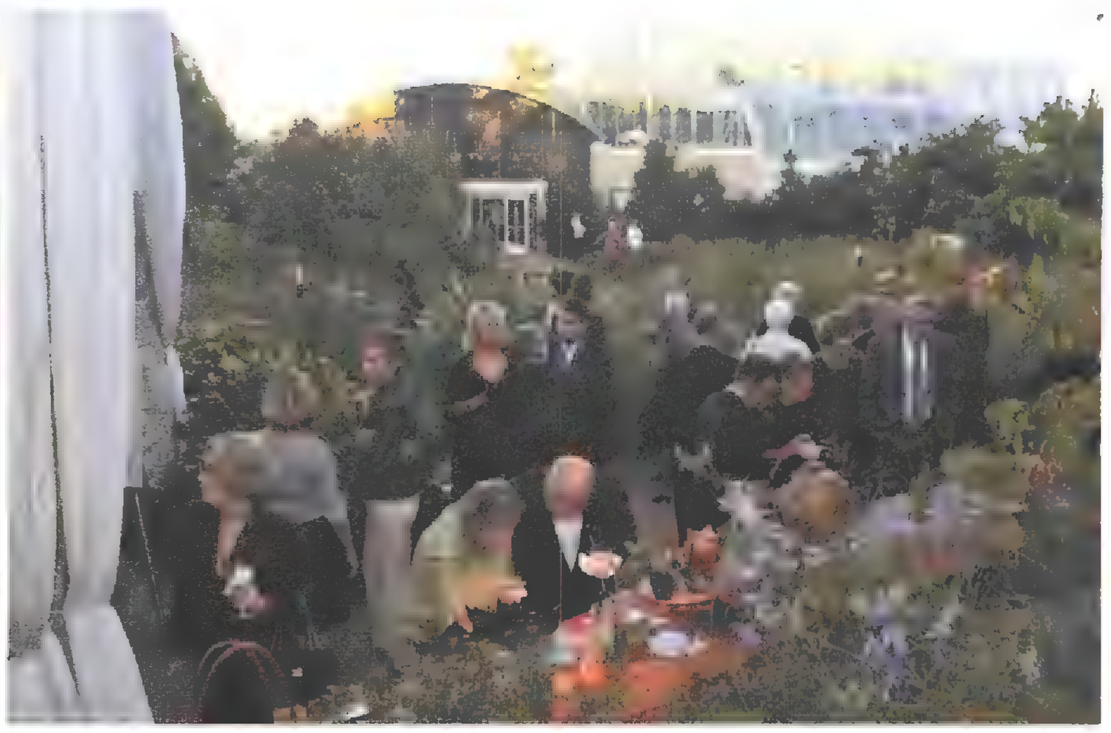
Home Performance contractor Ray Chapala demonstrates whole-house science.

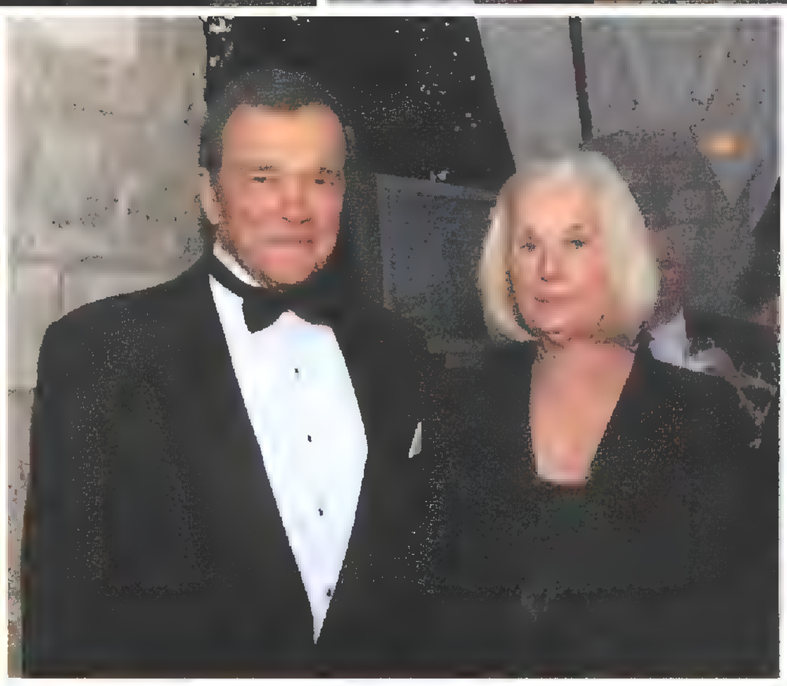
EarthWays Center

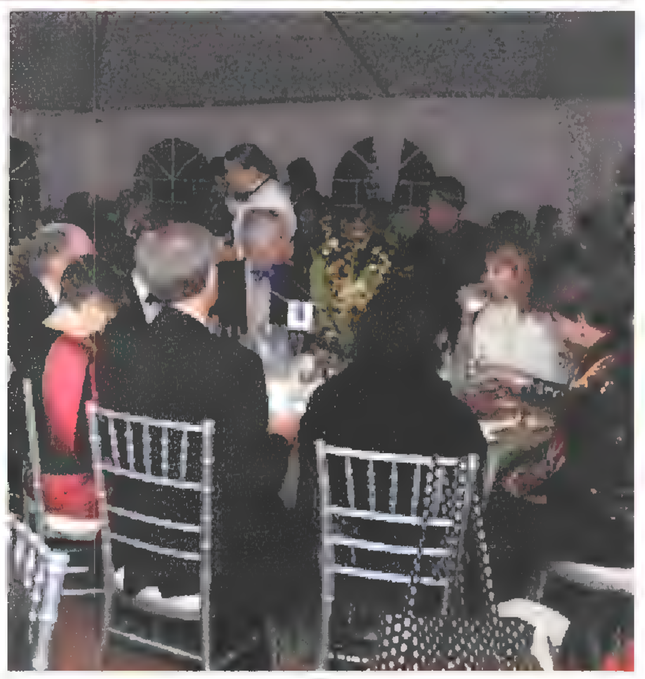
3617 Grandel Square, St. Louis, MO 63108
phone (314) 577-0220 • www.earthwayscenter.org

A Great Green Idea

Have you ever thought about how your home really operates? As the weather cools and we seal up the windows once more, did you ever wonder how the heated air gets where you want it to go? And what's the difference in those vents—some bring heated air, some don't—and sure, the couch is in front of one of them, does that matter? Proper air movement in your home can drastically impact your comfort, safety, and efficiency. The EarthWays Center provides expert advice to help you lower your home's energy consumption. Through the Greater St. Louis Regional Home Performance with ENERGYSTAR program, EarthWays puts homeowners in contact with specialists who conduct "whole house" assessments and generate a prioritized list of recommendations. Why not make your home more comfortable and save money? It's a great green idea! Visit www.earthwayscenter.org for more information and references to certified contractors.







Wing Ding 2007

photo by Mark Deering

Yellow birdwing
Troides rhadamantus

Range: Southeast Asia
Host plants: *Aristolochia* spp.

This birdwing features striking yellow and black coloration, a warning to predators that they taste bad. They are the largest swallowtail butterflies on view at the Butterfly House, but they only live about 10 days as adults (both here and in the wild), making them a wonderful, if short lived, addition to our collection.

Wing Ding Thank You

Thank you to everyone who contributed to Wing Ding 2007. The evening of September 15 was a spectacular success, thanks to the leadership of co-chairs Kim and Robert Brinkmann, and Jane and Thomas Sehnert, and to the enthusiasm of the committee of volunteers. Special thanks to our sponsors Mr. Douglas A. Albrecht, Mr. and Mrs. James G. Berges, Centric Group, L.L.C., Edward Jones, Emerson, Enterprise Rent-A-Car Foundation, Fifth Third Bank, Mr. and Mrs. Philip H. Loughlin III, Macy's, Mrs. Clifford W. Murphy, Novus International, Inc., Pfizer Inc., and Mr. and Mrs. Gerhard H. Strauss. The gala offered us the opportunity to honor Evelyn Edison Newman who founded the Butterfly House.

Holidays at the Butterfly House

Camp Bugaloo
Join the Sophia M. Sachs Butterfly House for Camp Bugaloo: Nature's Alphabet. Each ninety-minute class will include science, math, and language development activities for children ages. Price: $14 for Garden members ($16 non-members) covers each child and one adult. For reservations, call (636) 530-0076, extension 13. Visit www.butterflyhouse.org for details on December, January, and February Camp Bugaloo.

From the field:

Incan Incense in Bolivia

Today, in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever, before we can determine their uses or their role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active and geographically widespread botanical research program in the world. Their work forms the base on which the pyramid of plant science and conservation stands.

Left: A botanical resin incense for sale in a Bolivian market. Despite its use in religious ritual for centuries, the tree has never been named by science—until now.

Right: Students and local residents are essential to the Madidi project. Members of the Leco ethnic group inhabit areas south of Madidi National Park and assist in plant explorations. Four or five Bolivian students each year complete conservation theses with the help of Garden staff.

It is called simply *incienso* (incense), or in the Quechua language, *miski asnak* (sweet odor). This botanical resin has been collected from trees in the remote Madidi area of northern Bolivia probably since the days of the Inca and their predecessors, the Tiahuanaco. In a process that does not kill the tree when done properly, harvesters carefully slash the bark, wait six months for the sap to ooze and crystallize, and then return to gather the aromatic resin. Today, *incienso* is a million-dollar industry, sold in markets throughout Bolivia for use in both Andean rituals and Catholic Church ceremonies. And until now, it did not have a scientific name.

"People collecting the incense want to keep locations secret because harvesting takes place long after the slash, and anybody knowing where to go could steal the stuff," says Garden curator Peter Jørgensen, explaining how this well-known and well-used plant could remain "lost" to science. "The plant grows in remote areas of very difficult access. It takes days to reach it."

Garden scientists managed to find the *incienso* trees, and visited them repeatedly to gather all the materials needed to document the species—not just leaves, but back for flowers and then back again for fruits. Researcher Alfredo Fuentes and Freddy Zenteno conducted the additional research in libraries and herbariums around the world to make sure that this species of *Clusia* was truly new.

"The oldest written reference of its existence we found is from 1687 in some chronicles of the Franciscan missions in Bolivia," says Fuentes, "but the *incienso* was probably known and used by ancient Andean cultures."

Missouri Botanical Garden scientists have worked in Bolivia for over 30 years. Today, a staff of 10 collaborates closely with local Bolivian institutions, providing conservation guidance to local and regional governments and training for local people and students from elementary school through college. For photo essays and field reports on the Garden's work in the Madidi region of Bolivia, visit www.mobot.org/MOBOT/Research/madidi/welcome.shtml.

Why Does it Matter?

Without scientific documentation, plants are unlikely to be subjected to routine analysis for medicinal properties. Without scientific documentation, plants are unlikely to be included in conservation plans, and no evidence exists if populations are declining. As the *incienso* market has boomed, unscrupulous or unskilled harvesters have been accidentally killing more and more trees. Bolivia is the 12th most biodiverse country on Earth with 11 percent of all lands officially protected. However, enforcement is weak and deforestation has more than doubled. "Bolivia still has a lot of natural vegetation where no scientist has ever been to collect plants," says Steve Churchill, director of the Garden's program in Bolivia. "Who knows what we may find, if we can preserve it?"

photo by Jack Jennings

Tributes

July/August 2007

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

In Honor of

Mrs. Henriette Ackerman
Ms. Nancy A. Sachar
Mrs. Babs A. Sippel

Mr. and Mrs. Richard F. Baalmann
Mr. and Mrs. Don L. Wolfsberger

Mr. Morton D. Baron
Mr. and Mrs. Robert N. Schulte

Mrs. Margaret Beatty
Mr. and Mrs. David G. Skelton

Ms. Dorothy Beezley
Mrs. Frances J. Beezley

Mr. and Mrs. James J. Bissell
Mr. and Mrs. Sam J. Rosenbloom

Mr. and Mrs. Stuart Blume
Mr. and Mrs. Harlin Westerfield

Dr. and Mrs. Ben Borowsky
Carolyn and Joseph Losos

Mrs. Gloria Bryant
Mr. and Mrs. Otto H. Hanslick

Ms. Nancy R. Burke
Mrs. Gail K. Fischmann

Mr. Edward A. Corich
Mrs. Barbara Smoltz

Mrs. Henry W. Dubinsky
Mr. and Mrs. Stanley M. Edelstein

Mr. and Mrs. Henry W. Dubinsky
Mr. and Mrs. Walter G. Stern

Julie and Patrick Dwyer
Arden and Harry Fisher

Mr. and Mrs. Peter A. Flanigan
Mr. and Mrs. Walter G. Stern

Mrs. Solon Gershman
Mr. and Mrs. William B. Eiseman, Jr.

Ms. Barbara B. Goodman
Mr. and Mrs. Robert Byers

Miss Jennifer Growe
Dorothy and Sam Rosenbloom

Ms. Carol A. Gruen
Mr. Norman W. Thompson

Rebecca Haimowitz and Joshua King
Mrs. Jeanne Stolar

Mr. and Mrs. Neil J. Handelman
Mr. and Mrs. Rick Halpern

Mrs. Maxine Hirsch
Mr. and Mrs. Jules L. Pass

Mrs. Rhoda Hochman
Dr. and Mrs. Robert H. Friedman
Mr. and Mrs. Herbert M. Talcoff

Mark Jaffe and Ginger Nicol
Mrs. Marilyn Reznik

Mr. Martin Jaffe
Mr. and Mrs. Paul T. Putzel

Dr. Susan J. Laduzinsky and Mr. Michael Prather
PET Department: Cathy Mueller, Stephanie, Marianne
Pat Bruss
Marsha Head
Rhonda Levan
Linda Rooldridge

Dr. and Mrs. Harvey Lehrer
Julie, Beth, Todd, and Kevin

Mr. and Mrs. Ted Levin
Mrs. Gloria Jean Sirkin

Mr. and Mrs. Kenneth E. Maag
Mrs. Rosemary E. Logan

Alice Macken McGovern and James McGovern
Michael McGovern
Maureen Murphy
Patrick McGovern
Rosemary Hollis

Mary Ann Meador
Federated Garden Clubs of Missouri, Inc.

Madeline Rose Mednik
Mr. and Mrs. Rick Halpern

Mr. John T. Murphy
Mr. Bernard J. Mellman

Mrs. Elizabeth Newman
Dr. Sheila Greenbaum

Dr. Jitka Olander
Dr. and Mrs. Joseph Feder

Maximo Vuksinick Paskov Petersen
Ms. Ann T. Eggebrecht

Dr. Jennie Schmidt Quee
Dr. and Mrs. Micheal D. Rush

Ruby Kollas Quentin
Gwen and Billy Roedder
Janet and Billy Haas

Dr. Patricia Raven
Dr. and Mrs. Ernest G. Jaworski
Dr. and Mrs. Thomas A. Woolsey

Dr. Peter Raven
Mrs. William Cassilly
Mrs. Marian D. Senger

Ann and John Rollo
Dr. and Mrs. Edward Weiss

Dr. Stuart S. Sagel
Mr. and Mrs. Phillip Schreiber

Dr. Shirley Sahrmann
Mr. and Mrs. Gerald L. Phelan

Mr. Melvin Schnurman
Mr. and Mrs. Manuel S. Sherberg

Nadine (Nick) Silence and Lynn Silence
The Tuesday Evening Dining Society and Friends

Mrs. Ted Singer
Mrs. Gloria Jean Sirkin

Dr. James Swierkosz
Mr. and Mrs. Richard C. Ward

Mr. Brian Ward
Mr. Michael L. Kohn

Mr. and Mrs. Homer W. Weidmann
Mrs. Barbara Davies

Mrs. Jane Weidmann
Mr. and Mrs. Donald McLean

Mr. and Mrs. Aubrey Yawitz
Mrs. Bernard P. Levin

In Memory of

Dr. Fernando Arias
Dr. and Mrs. Erol Amon

Mr. Arthur J. Aston
Ms. Margaret Aston

Mr. John W. Atkinson
Dr. and Mrs. Gregory A. Storch

Mrs. Susan J. Bandy
Mr. David Konig and Ms. Judith Mann
Her friends at Ritenour High School

Mrs. Martha H. Belzer
Mr. William D. Kleyboecker

Mrs. Janice Benton
Rev. and Mrs. Victor J. Schroeder

Salvatore Biondo
Friends of Jessica Biondo

Mr. Harry E. Bixler
Mr. and Mrs. Russell E. Korte

Ms. Gladys Bottomley
Mr. Andrew Gucciardo

Mr. Eldon P. Brown
Dr. Paul J. Langlois

Mr. Henry C. "Hank" Bryan
Ms. Lisa Bartfeld
Mr. and Ms. Charles Berger
Mr. and Mrs. Frank C. Blumeyer, Jr.
Mr. and Mrs. J. Rodney Bryan
Mr. J.S. Bryan
Mrs. Katherine A. Burns and Family
Mr. Ronald N. Carter
Mr. Quintus L. Drennan, Jr.
The Village Garden Club
Mr. and Mrs. Dan L. Dunbar
Mrs. Bridget Fahy
Mr. and Mrs. Lucien R. Fouke, Jr.
Mrs. Ruth Hensler-Ferguson
Mrs. Anne W. Hetlage
Mr. and Mrs. Kurt F. Hildebrandt
Mr. and Mrs. Briggs A. Hoffmann, Jr.
Mr. and Mrs. W. R. Horlacher, Jr.
Mrs. Jacqulyn C. Jundt
Mr. and Mrs. Robert W. Mecker
Mrs. Margaret P. Moehlenbrock
Mr. and Mrs. H. William Reisner, Jr.
Mr. and Mrs. Ralph K. Soebbing
Mr. and Mrs. Robert E. Steiner
Mr. and Mrs. Louis J. Swallow
USDA NRCS Area Office & West Office
Mrs. Phoebe Ann Williams
Mr. and Mrs. Paul H. Young, Jr.
Mr. and Mrs. Zanvel A. Zack

Mr. Ralph D. Bullar, Sr.
Mr. and Mrs. Thomas V. Ottersbach

Mr. Patrick E. Bullock
Mrs. Mary A. Bullock

Mrs. Shirley Chartrand
Mr. and Mrs. Charles L. Gang

Ms. Janna Lee Chewning
Aon Service Corporation
Aon Insurance Risk Services
Ms. Marilyn K. Garmer
Mr. and Mrs. Larry D. Heatherly
Ms. Shirley Henze
Ms. Janet M. McCarey
Mr. and Mrs. Michael O'Connell
Ms. Ruth Treat

Mrs. Angela Chuchola
Mr. Kerry Auer
Mrs. Tracy L. Benke
Mr. and Mrs. Tim Brinker
Mr. and Mrs. Eric Cerny
Mrs. Dana Downing
Jimi Ellis and Cindy Ellis
Ms. Mollie Forsch
Ms. Nancy Hafron
Mr. and Mrs. Gary R. Hartwig
Mr. James J. Herrick
Mrs. Elizabeth Hill
Mrs. Cathy Hodin
Mrs. Kim Hoeynck
Dr. and Mrs. James C. Jennings
Ms. Cheryl J. Kaiser
Mrs. Jerri Koffman
Leed's
Ms. Jeannette Marriono
Michael Matras and Sharon Von Bank
Memphis Cotton Research
Monsanto Biotechnology
Ms. Marci Newsom
Ms. Susan Norris
Mr. and Mrs. Mark Oppenhuizen
Dr. Stephen R. Padgette
Mr. and Mrs. Rodney Rausch
Ms. Lisa Ruschke
Mr. Fred R. Sher
Dr. Douglas Shoup
Mr. and Mrs. Phillip J. Sibinski
Mrs. Derenda Stanley
Mr. Charlie Stevens
Mr. Jeffrey N. Travers
Mr. Richard Voth
Mr. Scott Whitesell
Dr. Tom Wofford

Mrs. Mariella C. Coe
Mr. and Mrs. Jack A. Hughes
Mrs. Hugh M.F. Lewis
McKnight Place Extended Care
Mr. and Mrs. Bill Meeks

Mrs. Juanita V. Collins
Mrs. Mary Jane Romo

Frederick and Alice Comte
Ms. Viviane Godefroi

Das Family mother
Dr. and Mrs. Erol Amon

Mrs. Berta M. Deutsch
Mr. and Mrs. H. George Nafe
Mrs. Jane Webster
Ms. Rosemary Wellington

Arnold Donald's Father
Carolyn and Joseph Losos
Mr. and Mrs. John K. Wallace, Jr.

Mr. Francis "Bud" Douglas
Mr. and Mrs. Robert E. Haddix

Mr. Harry J. Drews
Mr. and Mrs. Seymour Krout

Mr. Frank D'Urso
Ms. Donna Huey

Mrs. Gwendolyn Edgar
Mr. and Mrs. Willard R. Clausen

Mr. Larry Engelhard
Mr. and Mrs. Harold P. Amann

Mrs. Virginia R. Eshbaugh
Mr. and Mrs. Juan Kindelan

Mrs. Radine Feldman
Mrs. Ellen Ross

Mrs. Katherine H. Frein
Ms. Barbara Anderson
Ms. Karen Chandra
Mr. and Mrs. David L. Ottinger
Mr. and Mrs. Terry Schulte
St. Louis Chapter of CSI
Mrs. Stephen J. Wanamaker

Mrs. Gloria Freund
Mrs. Charles T. Fike

Mr. Eugene Gebben
Mrs. Dolores M. Wente

Mrs. Mary Genusa
Mr. and Mrs. Salvatore P. Ciccolella
Chesterfield Horticultural Club

Mr. John H. Glaser, Jr.
Mr. and Mrs. Donald R. Hemmer
Mr. and Mrs. William F. Kammermeyer III

Carol Glauberman
Ms. Anne L. Draznin

Susan Goldstein's father
Mr. and Mrs. Robert Weintraub

Mrs. Adele Grace
Mr. Edward W. Grace

Mrs. Louise Grant
Mrs. Lynne H. Einig

Mr. John Graves
Ms. Nancy S. Swoboda

Mr. Robert E. Haldiman
Mr. George K. Hasegawa

Mr. Allan J. Hamilton
Mr. Wayne E. Fick

Mrs. Jean Hamilton
Mrs. Debby Bakewell

Mrs. Ruth Hammersland
Ms. Vivien T. Gardner

Mrs. Mary Kay Hannon
Mrs. Dolores M. Wente

Ms. Nancy Harbutte
Mr. and Mrs. Harold A. Tzinberg

Dr. Roger Heape's sister
Dr. Ilene G. Wittels and
Mr. Alan M. Gerstein

Ms. Frances L. Helmsing
Mrs. June R. Bierman

Dr. Norio Higano
Mr. Craig Hoeferlin
Mr. Keith Hoeferlin
Mr. and Mrs. Ray Hoeferlin

Mr. James D. Hofferth
Mr. and Mrs. Edgar Haner

Mrs. Ann Hoover
Mr. Mark Durbin

Mr. Dan Horkheimer
Ms. Katie McCarty

Mr. Lou Ifft
Ms. Marcella G. Hoehne

Mrs. Marjorie R. Ikemeier
Mrs. Marian Newport

Lady Bird Johnson
Ms. Ruth S. Davidson

Mr. Thomas F. Johnson
Mr. and Mrs. Ben Moore

Dr. Edward Rickert Jones
Dr. and Mrs. A. Vernon
Montgomery

Mr. Warren J. Klos, Sr.
Mr. Bob Wibbenmeyer

Reverend Marvin C. Kopff
Mary Loos
George Austerman

Mr. Paul L. Korklan
Mr. and Mrs. Robert H. Slosberg

Dr. Rosalind H. Kornfeld
Kathy Kresser
Rose Lauman
Drs. Peter and Patricia Raven
and the staff of the Missouri
Botanical Garden
Jan Simons

Kramer
The Mikolajczak Family

Mrs. Trula Ladreiter
Dr. and Mrs. Charles O. Bowers

Mrs. Helen Lapham
Ms. Irene Goldman

Mr. Ralph J. Layton, Sr.
Dr. and Mrs. James A. Willibrand

Mrs. Agnes J. Lee
Mr. and Mrs. Lyle Siemer

Mr. Bennett Lerner
Mr. and Mrs. Eugene S. Kahn

Mr. Hugh M. Lewis
Mrs. Joseph Ruwitch

Ms. Sharla Linkowski
Mr. and Mrs. Rodger S. Izzo

Mr. Ralph Lueders
Melissa and Don Palmer

Mrs. Helen R. Magill
Mrs. Dorothy W. Smith

Mrs. Ruth C. Marglous
Dr. and Mrs. Edward Weiss

Mrs. Mary L. McClelland
Mrs. June M. Kausler

Mrs. Anna Louise McCurdy
Mrs. Lisa Ashkar

Mrs. Kay McDowell
Mr. and Mrs. Burdick V. Burtch
Dick and Carole Mellow

Mr. Edward L. McGrath
Mrs. Eleanor W. Ellis

Mrs. Nancy Jean McVey
Jeffrey and Melinda May
Sheri Nowatski
Ronald E. Unell, C.P.A.
Schnuck Markets, Inc.
Ann Winkelman

Mrs. Helen C. C. Millstone
Mr. and Mrs. John J. Shillington

Mrs. Lila C. Moore
Dr. Rosalyn Schultz

Ms. Beverlee Celeste Morris
Alan and Jeannette Nissenbaum

Mrs. Olga Mueller
Jerre and Gayle Birdsong

Mrs. Marie E. Myers
Anna, Andy, Barb and Art
Mr. and Mrs. Arthur G. Myers II
Ms. Deborah Zeilman

Mr. George Patrick O'Toole and Mrs. Genevieve O'Toole
Ms. Nancy Keefer
Missouri Botanical Garden
Institutional Advancement
Missouri Botanical Garden
The Members' Board
Mr. and Mrs. Robert P. Tschudy

Mrs. Jane Paule
Mrs. Marian R. Dean

Mrs. Jane Penhale
Ms. Kristin Larson

Mr. Daniel Ramirez
Mr. and Mrs. Angelo L.
Maltagliati

Mr. Edward Renshaw
Mrs. Ellen Ross

Mr. Ernest M. Roehm
Dr. and Mrs. John H. Craddock

Dr. David J. Rogers
Ms. Judy Bushnell

Ms. Linda Rolufs
Mrs. Sherris S. Welsh

Mrs. Margaret Roman
Ms. Claudia S. Spener

Mr. Joseph A. Ruggeri
Mr. and Mrs. Angelo L.
Maltagliati

Mr. Marvin Saks
Mr. and Mrs. Stephen C. Smith

Mrs. Lucille Schmitthaeusler
Mr. and Mrs. Donald R. Hemmer

Mrs. Maxine Schuler
Mrs. Phyllis S. Korrell
Washington Garden Club

Mrs. Patricia Schwartzmeyer
Department of Pathology-
St. Louis University
Mr. and Mrs. Mike Kelly

Rebecca L. Scott
Sue and Jerry Palmer

Mrs. Virginia L. Scott
Ortmann Stipanovich Funeral
Home, Inc.

Mrs. Charlotte E. Sisler
Mr. and Mrs. Robert M. Calles
The Commerce Trust Company
Ms. Alexandra M. Goddard
Ms. Viviane Godefroi
Mrs. Liz Greer
Mrs. Ruth C. Hellstern
Ms. Jackie Juras
Mr. and Mrs. Fred A. Mayse
Dr. and Mrs. Kim P. McPheeters
The McPheeters Family
Mrs. M. Lorraine Orr
Mr. and Mrs. Carl P. Schumacher
Mr. Rich Shulusky
Mrs. Carolyn Y. Sullivan
Mr. Jerry Wedemeier

Mrs. Marjorie E. Snodgrass
Mr. and Mrs. Angelo L.
Maltagliati

Mrs. Eldora H. Spiegelberg
Mr. Richard D. Schreiber

Mrs. Joan Staley Stevens
Mr. and Mrs. Charles L. Barnes
Ms. Eleanor S. Darcy
Mr. Joseph Koster
Mr. and Mrs. Charles N. McAlpin
Mr. and Mrs. John S. McCarthy
Mr. and Mrs. James S. McDonnell III
Mrs. Priscilla B. McDonnell
Mr. and Mrs. James N. Probstein

Mr. Russell E. Sutter
Parkway Central Middle School
Staff

Mrs. Melba A. Sweets
Ms. Ellen Sweets

Mr. Charles H. "Mike" Talkington
Mrs. Louise Campbell

Mr. Ralph Thoele
Mrs. Dolores M. Wente

Mrs. Audrey M. Thompson
Mr. Bob Wibbenmeyer

Mrs. Ann G. Viviano
Mr. and Mrs. Frank A. Buffo III

Mr. William Voepel
Mrs. Ruth Hubert Morris

Mrs. Alice Watson
Jim and Rosalie Cooper

Janet M. Weakley
Mr. and Mrs. Charles P. Reay
Mrs. Gene S. Smith

Mr. Dennis H. Wellen
Mr. and Mrs. James E. Flick

Mrs. Jean Kiley Wells
Mr. and Mrs. Charles P. Reay

Mrs. Ann Louise Wilkinson
Boxwood Society of the Midwest
Mrs. Ruth Sherman
Mr. Howard J. Wilkinson, Jr.

Mrs. Betty Theis Williams
Mr. and Mrs. Arthur E. Schmid

Mr. Francis Gail Wilson
Mrs. Lynn Obermoeller

Mr. Allan J. Wootten
LaMear & Rapert, L.L.C.

photo by Kevin Wolf

Sophia M. Sachs Butterfly House Pavers

To learn more about these opportunities, call (314) 577-0291 or www.butterflyhouse.org.

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in July/August 2007

Tributes In Memory of

Mr. Sol Balis
Dr. and Mrs. Jules M. Snitzer

Mrs. Edna Drackert
Madame Butterfly Gift Shop
Staff and Butterfly House
Volunteers
Mark and Jessica Deering
Ms. Joan Ettman and
Ms. Cindy Capatosta
Ms. Jackie Juras
Ms. Esther Pahl
Mrs. Jean Racowsky and
Ms. Beth Yarus
Ms. Cynthia D. Reynolds
Dr. and Mrs. Jules M. Snitzer

Janie Miller's Mother
Mr. and Mrs. Richard L.
Barnett

Mr. Hubert A. Heimos
Mrs. Hubert A. Heimos

Ms. Margie Piper
Dr. and Mrs. Jules M. Snitzer

Pavers

Tony Calogero
Mr. and Mrs. David Mulford

Sheri Caple
Mr. and Mrs. Lonnie J.
Meyers

Kate and Erie Cowen
Catherine A. Cowen

Edna Drackert
Madame Butterfly Gift Shop
Staff and Butterfly House
Volunteers
Katie Allen
Lee Ann Alexander
Rachel Anderson
Claudia Backus
Deborah Berkey
Carol Breckenridge
Gail Cammarata
Cindy Capatosta
Ruth Carapella
Sally Carpenter
Donna Crain
Jim Drey
Joan Ettman
Roxane Holtzman
Betty Kamman
Renee Kanterman
Esther Pahl
Judy Rosen
Jean Rosenfeld
Shirley Valentino
Judy Watters
Anita Yeager

Anne Hoerner
Keith Hoerner

Grandma June
Michael Gruhala

Eleanor and Hugh Kelly
George Van Antwerp

Sudie Lohman
Dora Schriro

Anthony Scaglione
Alyse Scaglione

Kathleen Ann Smith
Robert L. Smith, Jr.

JoAnn Walsh
Burdette Hayes and
JoAnn's "Sorority Girls"

photo by Leslie Wallace

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from July through August 2007.

Bronze Signature Bricks

Professor William Berry
Mr. L. Jon Atkinson

The Bland Family Foundation
Ms. Cynthia Medart

Most Reverend Raymond L. Burke
Archbishop Raymond L. Burke

Chuck and Liz Burns
Mr. and Mrs. Chuck Burns

Phyllis R. Dubinsky
Ms. Ellen Dubinsky

Dorothy and Billy Firestone
Mr. and Mrs. William B. Firestone

Charity Fitzgerald
Mr. and Mrs. Michael N. Fitzgerald

Linda and Ben Goldstein
Dr. and Mrs. Benjamin Goldstein

Dr. John and Becky Hagan
Dr. and Mrs. John Hagan

Susan and Stephen J. Hall
Mr. and Mrs. Stephen J. Hall

Edward and Charlene Hamlin
Mr. and Mrs. Edward Hamlin

Dennis Heidbrink
Ms. Patricia Crocker

William and Mary Heidbreder
Mrs. Mary L. Heidbreder

Tom and Renee Hennekes
Mr. and Mrs. Thomas Hennekes

Jim and Pat Hofferth
Mr. and Mrs. James D. Hofferth

Mr. and Mrs. Ronald J. Kessler
Mr. and Mrs. Ronald J. Kessler

Mrs. Frank L. Key
Mrs. Frank L. Key

Sherri Koehm
Ms. Sherri Koehm

Susan and Peter Krombach
Mr. and Mrs. Peter B. Krombach

Marian Bland Langdon
Mrs. Marian B. Langdon

Walter and Cynthia Metcalfe
Walter and Cynthia Metcalfe

Mr. and Mrs. Earl A. Moore
Mr. and Mrs. Earl Moore

Mr. and Mrs. Harry C. Mueller
Mr. and Mrs. Harold C. Mueller

Mr. and Mrs. William T. O'Byrne
Mr. and Mrs. William T. O'Byrne

Leslaw Ogorzalek
Mr. Leslaw Ogorzalek

Mr. and Mrs. Keith Pelot
Mr. and Mrs. Keith Pelot

Gordon and Susie Philpott
Mr. and Mrs. Gordon W. Philpott

Jocelin, April, Emily, Aaron, and Katie Saks
Mr. and Mrs. Ronald S. Saks

Reverend Paul Schippel
Rev. Paul Schippel

Fred and Karen Schneider
Mrs. Karen Schneider

Mr. David A. Schumaier
Mr. David A. Schumaier

George and Kimi Shimamoto
The Shimamoto Family
Lois Adams
The Albertsmeier Family
Vicky and Scott Baker
Tom and Katherine Brubeck
Mr. and Mrs. Frank A. Buchmeier, Jr.
John and Gladys Cramer
Jim Deters
Mike and Georgia Ferretti
Don and Darlene Freber
Ritsuye Fukunaga
Ron and Judy Greenwald
The Habara Families
Kimiko Habara, Misao Habara, Terumi Hashimoto, Shigemi Ochi, and Fumiko Tanioku
John and Nikki Hara
George Hasegawa
Harry and Alice Hayashi
Jim and Alice Hayashi
Glenn Hayataka
Hiro Hayataka
Holly Hayataka
Todd and Tracy Hayataka
Allan and Nancy Hikoyeda
Mrs. Yoshiko Hikoyeda
Mr. and Mrs. Al Hinton
Kiyoshi and Chizuru Imai
John and Ishi Kim
Janice Koizumi
Dr. Dick and Yoshiko Mitchell
Anne Mitori
Steve Mitori
Ken, Colleen, and Maya Mizuki
Jean Mozingo
The Nakamura Families
Louise and Shig Kanda, Jerry and Carole Nakamura, Tom Nakamura, David and Peggy Nakamura, Alan and Carrie Nakamura
Mr. and Mrs. Harold Piening, Jr.
Bill Shimamoto
David and Joyce Shimamoto
Don Shimamoto
Edwin Shimamoto
Lynn Shimamtoto and Don Brubeck
Manabu and Miyako Shimamoto
Peter and Jane Shimamoto
Richard and Vicky Shimamoto
Scott and Pam Shimamoto
Roy and Jewel Yamamoto

Evie and Jim Shucart
Mrs. James W. Shucart

Sue Slivka
Ms. Sue Slivka

Masaharu Mark Hiroko Takano
Mrs. Asako Morioka
Mrs. Hiroko Takano and Mr. Kazuko Ogura
Mr. Jojiro Takano
Mrs. Betty Uchiyama
Mr. and Mrs. Frederick C. Wear

Bill, Evelyn, and Bob Theobald
Mr. and Mrs. Bill Theobald

Betty Reeder Tussey
Ms. Nancy T. Russell

Joseph and Cynthia Voss
Mr. and Mrs. Leo Voss

Ann Carroll Wells
Ms. Ann C. Wells

Henry and Rhoda Wichman
Mr. and Mrs. William S. Wichman

Rod and Pat Wiltse
Rev. and Mrs. Roderic D. Wiltse

Jim and Marcie Zweifel
Mr. James Zweifel

Engraved Clay Bricks

Louise Bellagamba
West County Daylily Club

Fern L. Hale Cronin
Mr. and Mrs. Leo A. Ebel

M. Catherine Hale Ebel
Mr. and Mrs. Leo A. Ebel

Jerry and Margie Eckert
Children of Jerry and Margie Eckert

Pat and Donna Larson Family
Ms. Donna J. Larson

Dr. and Mrs. MJ Lonsway, Jr.
Dr. and Mrs. Maurice J. Lonsway, Jr.

Mary Margaret Kleba
Ms. Mary Margaret Kleba

Marilyn Holmes Allen Langston
Ms. Marilyn R. Holmes and Mr. Allen Langston

Nick and Laura
Mr. Thomas Detert

Gene and Donna Maggard
Mr. and Mrs. Gene Maggard

Rick, Sybil, Leanne, and Marisa
Dr. and Mrs. Charles Bowen

Becky Raether Scott
Missouri Botanical Garden

Ann and Steve Snitzer
Dr. and Mrs. Stephen E. Snitzer

Joan Staley Stevens
Mrs. Priscilla B. McDonnell

Walter F. Sturm and Ingrid A. Sturm
Mrs. Ingrid A. Sturm

photo courtesy of Sea Cloud Cruises

Members' Travel: Gardens of the Caribbean

Garden members are invited to join a sailing expedition from Antigua to Barbados, as we discover the unique history of Caribbean gardening and plantation life, aboard the legendary Sea Cloud II. Ports of call include Iles des Saintes, with its breathtaking views, the lush island of Dominica; Grenada the "spice island," and colorful Trinidad. An optional trip extension on Barbados features beautifully maintained botanical gardens and properties. Travel February 1 to 8, 2008. Price per person from $3,995. Call (314) 577-0221 for more information.

MISSOURI BOTANICAL GARDEN
1-800-642-8842 • 4344 Shaw Blvd. • St. Louis, MO 63110 • www.mobot.org

November 2007

average temperature: 45.25
average monthly precipitation: 3.71 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

Fall Color

Pansies

Ornamental Grass

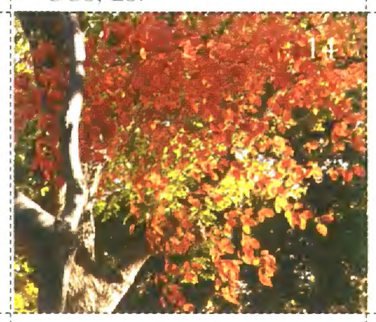
Hardy Mums

Burning Bush

All events take place at the Garden unless otherwise noted.

BH = Butterfly House, (636) 530-0076
EWC = EarthWays Center, (314) 577-0220
GGS = Garden Gate Shop, (314) 577-5137
LS = Little Shop Around the Corner, (314) 577-0891
SNR = Shaw Nature Reserve, (636) 451-3512

SP = Spink Pavilion
ST = Shoenberg Theater
** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required
■ Guided walking tours, 1 p.m. daily
■ Early morning walking, every Wed. and Sat. from 7 a.m.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			Closed for the Season: Trams cease operation until April. Children's Garden and Terrace Café inside the Kemper Center for Home Gardening are closed until April. Tower Grove House is closed January and February each year.	01 ■ "Wildflowers, Grasses and Sedges" exhibition until Nov. 11.	02 ** Members' Day: Holiday Decorating. 11 a.m. ST. See p. 8.	03 ** Member Orientation & Tour. noon. ST. See p. 8. ■ Metropolitan St. Louis African Violet Council fall sale, 9 a.m. to 5 p.m. ■ Booksigning: *Best Garden Plants for MO* by Anita Joggerst, Noon to 2 p.m., GGS.
04 ■ From the Garden, Live®: Artist Presentation Society. Noon. ST. Tickets: www.classic99.com	05	Election Day 06	07 ■ Members' 20% off sale. GGS, LS.	08 ■ Members' 20% off sale. GGS, LS.	09 ■ Members' 20% off sale. GGS, LS.	10 ■ Members' 20% off sale. GGS, LS.
Veterans Day 11 ■ Members' 20% off sale. GGS, LS. ■ From the Garden, Live®: Arianna Quartet. Noon. ST. Tickets: www.classic99.com	12	13	14 	15 ■ Science Café: Dr. Peter Raven speaks on Global Warming, 6:30 to 9:30 p.m. $. SP. See p. 4.	16 ▼ Holiday wreath exhibition through Jan. 7, 2008	17 ■ Guided tours, 11 a.m., noon, 1, and 2 p.m. $. EWC
18 ■ From the Garden, Live®: physician-musicians. Noon. ST. Tickets: www.classic99.com ■ Guided tours, 11 a.m., noon, 1, and 2 p.m. $. EWC	19	20 ◀ Tower Grove House decked for the holidays through Dec. 31	21 ▼ Gardenland Express: Wilderness Escape. Nov. 21 through Jan. 1, 2008. See p. 7.	Thanksgiving 22	23	24
25	26	27	28 ▶ ** Members' Evening: Gardenland Express, 5 to 8 p.m.	29 ■ Jeff Guinn and Chef Lars Cooking Demonstration. 1 to 3 p.m. See p. 8.	30	

December
2007

average temperature: 33.9°
average monthly precipitation: 2.86 in.

Poinsettia

Witch Hazel

Holly

Tartarian Dogwood

Christmas Cactus

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01 ** Members' Event: Breakfast with Santa, 8 to 10:30 a.m. $☎ See p. 8. ** Members' Event: Victorian Holiday Evening, 6 to 8:30 p.m. $☎ See p. 8. ■ Gardenland Express through Jan. 1, 2008
02 Chanukah: Festival of Lights. Noon to 4 p.m. RC. See p. 6. ■ From the Garden, Live®: Bach Society. Noon. ST. Tickets: www.classic99.com	03	04	Chanukah 05 ■ Members' 20% off sale. GGS, LS.	06 ■ Members' 20% off sale. GGS, LS.	07 ■ Members' 20% off sale. GGS, LS. ■ Camp BUGaloo. BH $☎	08 ■ Christmas Carols in the Garden. 1 to 5 p.m. See p. 6. ** Members' Event: Holiday Concert, 1 p.m. ■ Members' 20% off sale. GGS, LS. ■ Herbaria trunk show. GGS
09 ■ Christmas Carols in the Garden. 1 to 5 p.m. See p. 6. ■ Members' 20% off sale. GGS, LS. ■ Herbaria trunk show. GGS ■ Camp BUGaloo. BH $☎	10 ■ Tower Grove House Auxiliary Holiday Luncheon. Noon, SP. See p. 8.	11 ■ Bookisigning: *Little Big Book of Christmas* by Lena Tabori 1 to 3 p.m., ST. See p. 8.	12	13 ■ Holiday Lights Bus Tour. See p. 8.	14 ■ Camp BUGaloo. BH $☎	15 ■ Guided tours, 11 a. 1, and 2 p.m. $. EV
16 ■ Guided tours, 11 a.m., noon, 1, and 2 p.m. $. EWC	17	18	19	20	21	
23	24	Christmas 25 ■ The Missouri Botanical Garden is closed on Christmas Day.	26	27	28 Kwanzaa: Festival of the First Fruits. Noon to 4 p.m. See page 6.	29
30	New Years Eve 31					

Missouri Botanical Garden Library
3 1753 00346 3764

photos by Sarah Green, JJ Lane, Josh Monken, Tammy Palmier, Ryan Rumberger, John Smelser, Emily Snider, Chris Starbuck, Leslie Wallace, and Erin Whitson.

Contents

News 3
Events 6
Kidstuff 9
Sassafras 10
Gift of the Garden 12
Gardening 14
Garden at Large 16
From the field: Bolivia 18
Tributes 19
Calendar 22

General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings until noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Education ..... (314) 577-5140
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Institutional Advancement .... (314) 577-9500
Hort. Answer Service ..... (314) 577-5143
Volunteer ..... (314) 577-5187

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: A cardinal on a tree at the Garden during a light snowfall. Photo by Ryan Rumberger.

©2007 Missouri Botanical Garden

The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
Theresa Loveless, H. C. Milford, Secretary, Robert H. Orchard, Martin Schweig, Pamela Shephard, Walter G. Stern, Charles A. Stewart, Jr., Marjorie M. Weir, Roy Jerome Williams, Sr., Hillary B. Zimmerman.
Non-voting advisory members: Willie J. Meadows, Janice M. Nelson, James H. Yemm

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

photo by Justin Visnesky

Hand-painted, one-of-a-kind birds by artist Jim Mullan utilize vintage "found objects." A uniquely green gift of distinction!

GARDEN GATE SHOP
(314) 577-5137
9 a.m. to 5:30 p.m. daily.
Members 10% off every day, 20% off on members' days.

LITTLE SHOP AROUND THE CORNER
(314) 577-0891
10 a.m. to 4 p.m, Tues–
Antiques and collectible
Donations welcome.

sassafras
(314) 577-9473 ext. 6595
9 a.m. to 5 p.m. Lunch 11 a.m. to 3 p.m.

CATERING ST. LOUIS
(314) 577-0200
Now booking 2007-08 parties and events at the Garden.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166-0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO